Department of Marine and Fisheries, Canada

METEOROLOGICAL SERVICE

MONTHLY WEATHER REVIEW

BY

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DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

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INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

From the Pacific Coast to the Lake Superior districts of Ontario the month was one of extreme cold. The mean temperature of the western half of the Dominion ranged from 2° to 16° below the average temperature of January for some twenty years previous. In the Ottawa Valley and along the Lower St. Lawrence and Gulf, the mean temperature was also subnormal but not to such a marked extent. In southern Ontario, western Quebec and the Maritime Provinces, however, the month was warmer than usual.

With the exception of a very few days the western portion of Canada was under the influence of areas of pronouncedly high pressure and their accompanying cold waves throughout the month. The path of these areas lay across northern British Columbia and the Prairie Provinces, but their influence was sufficiently extensive to depress the temperature of Vancouver Island and the southern mainland of British Columbia much below the seasonal average. On the Island 2° to 4° below the normal were recorded, and on the lower mainland from 6° to 10°. In the Cariboo district the most severe cold was experienced and here the greatest departures from normal, 11° to 14°, occurred.

Very low mean temperatures were recorded in the Prairie Provinces, across which lay the path of the cold waves. In the district lying immediately north and east of Edmonton, 60°, and more, below zero were recorded between the 11th and 13th, while 40° below occurred nearly everywhere in these provinces on the 1st, 2nd, 3rd, 11th, 12th, 13th and 14th. The average temperature of the month at all stations was between 5° and 15° below zero. On the 4th, 5th, 6th, 24th, 25th, 28th and 29th, the temperature rose to the freezing point or nearly so, and these were the warmest days of the month.

There were many stormy days during January throughout the west, with high winds and heavy snowfalls. The total snowfall varied between 5 and 20 inches in the Prairie Provinces, but an average would appear to have been 10 inches. In British Columbia, west of the Rockies, where during the winter months a very different climate prevails, there was much rain, and thunderstorms were reported from some localities. On the lower mainland snow and rain alternated during the greater part of the month, while on the higher levels the precipitation was mainly snow.

The district of Ontario lying to the west of Lake Superior experienced much the same weather during the month as the western provinces, except that the snowfall was not heavy. In the remainder of Ontario, with the exception of the Ottawa Valley, the mean temperature was higher than the January normal. The 3rd, 4th, 5th, 16th to 19th, were very cold days with temperatures considerably below zero. Several days, however, were very mild, with temperatures exceeding 40° throughout the greater part of the province. 57° was reported from Woodstock, and 63° from Pelee Island, on the 25th. Precipitation was in defect of the usual quantity.

In western Quebec the mean temperature of January was about 1° warmer than the normal, but along the Middle and Lower St. Lawrence and Gulf, the month was colder than usual by about 1°. Except at Quebec City and its immediate vicinity alone, the precipitation appeared to be less than the normal.

In New Brunswick and Prince Edward Island, the month was warmer than usual, with several mild days. Temperatures well below zero were recorded, however, from the 16th to the 18th, on the 20th, and at some places on the 30th and 31st.

In Nova Scotia, although mean temperatures were higher than normal over the greater part of the province, yet there were local exceptions.

An excess of precipitation was reported from northern New Brunswick and Cape Breton, but elsewhere in the Maritime Provinces less than the usual amount was recorded.

ATMOSPHERIC PRESSURE.

The mean value of the atmospheric pressure for January was above the average from Saskatchewan to the Maritime Provinces, while in Alberta and British Columbia it was below.

The positive departures from normal were generally about 0·05 of an inch, and the extreme was 0·09 of an inch at Kingston, Ont. Negative differences were at most places about 0·10 of an inch, and the extreme was 0·11 of an inch at Barkerville, B. C., and Banff, Alta.

HIGH AREAS.

Twelve areas of high pressure were charted, more than are generally recorded for January. Nine first appeared in the Yukon Territory, one in northern British Columbia and two on the United States Pacific Coast. During nearly the whole month a great anticyclonic system covered the Yukon Territory and the far North, and many of the nine areas which travelled from these regions were more strictly dislodgements or secessions from the great parent system. The areas either passed well to the northward of the Great Lakes into the St. Lawrence Valley and the Maritime Provinces or else well to the southward of the Great Lakes. The excessive cold by which they were usually accompanied caused a month of decidedly cold weather almost throughout the Dominion.

LOW AREAS.

Thirteen areas of low pressure were charted for the month; seven first appeared either on the northern British Columbian or the Alaskan Coast, two on the southern coasts of British Columbia, one in the South Pacific States, one in the Middle Mississippi Valley, one in the Gulf of Mexico and one to the southward of Nova Scotia. The general course of the areas was over or to the northward of the Great Lakes and ultimately across Eastern Canada and Newfoundland. Many of the systems were of pronounced energy, and strong winds and gales were of frequent occurrence, particularly in the Maritime Provinces and Newfoundland. Some very heavy gales were also experienced on the British Columbian coast.

WINDS.

The following table gives the general direction and force of the wind during the month over the Dominion. Owing to the topography of the interior of British Columbia, wind records cannot be accurately obtained there, but the mileage given for Banff, which is obtained on the top of Sulphur Mountain, 7,484 feet above sea level, is instructive.

In Alberta no records have been so far taken in the southern portion, and Calgary at present is not reliable. A lengthy series of records from Edmonton go to prove that the wind mileage is quite moderate in northern Alberta. The Toronto record is registered at Toronto Island, giving the full force of the winds which blow on Lake Ontario. In Quebec and the Maritime Provinces the gauges are well exposed.

PROVINCE.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
BRITISH COLUMBIA.							
Victoria	7389 (30 days)	408	40	3	6	8	Variable.
Triangle Island	10618	1183	87	5	8	3	
ALBERTA.							
Edmonton	3515	423	36	2	0	3	
Calgary	2339 (27 days)	162	16	0	1	5	Variable.
Sulphur Mt., Banff	15201	1025	46	10	6	1	
SASKATCHEWAN.							
Qu'Appelle	5497	381	26	0	3	10	North and West.
Battleford	5691	413	60	1	8	8	
MANITOBA.							
Winnipeg	8139	502	36	2	11	10	North and West.
ONTARIO.							
Port Arthur	9631	453	35	5	7	10	
Parry Sound	7688	442	31	6	8	6	Variable.
Woodstock	8203	537	34	6	8	6	
Toronto	10641	506	52	6	8	6	
QUEBEC.							
Montreal	9515	652	39	2	12	11	North and West.
Quebec	11002	616	15	5	15	4	
MARITIME PROVINCES.							
Pt. Le Prairie	13442	927	48	6	9	8	Northwest, West and Southwest.
Halifax	10526	725	46	6	9	8	
St. John	11852		41	6	9	8	
Flat Pt.	11820	817	65	6	9	8	

In the Maritime Provinces, where in most localities navigation remains open the year round, the gales were experienced on the 4th, between the 9th and 10th, between the 19th and 20th, on the 21st, between the 28th and 29th, and between the 30th and 31st. These storms were all successfully warned except the one which occurred between the 19th and 21st, and which was generally moderate.

TEMPERATURE

Extreme cold prevailed over the Western Provinces of Canada during the month of January. In the greater portion of Southern Ontario, however, the month was warmer than average, and this was also the case in the Maritime Provinces and Western Quebec.

The highest and lowest temperatures recorded in each Province during the month of January, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	50° at Sooke on the 1st, and Victoria on the 5th	—50° at Chilcotin on the 13th.
Alberta,	49° at Macleod on the 4th.	—76° at Fort Vermilion on the 11th.
Saskatchewan,	36 at Stanley Mission on the 22nd	—60° at Onion Lake on the 13th.
Manitoba,	32° at Ninga on the 28th.	—45° at Oakbank on the 3rd, and Dauphin on the 11th.
Ontario,	63° at Pelee Island on the 25th	—48° at White River on the 6th.
Quebec.	45° at Ste. Anne de Bellevue on the 2nd.	—47° at Abitibi on the 6th.
New Brunswick,	52° at Grand Manan on the 4th.	—24° at Chatham on the 18th.
Nova Scotia,	60° at Wolfville on the 4th.	—20° at Antigonish on the 18th.
P. E. Island,	50° at Hamilton on the 3rd.	—15° at Charlottetown on the 18th.

PRECIPITATION.

From the Pacific Coast to Eastern Manitoba the precipitation was in excess of the normal amount, but elsewhere in the Dominion excess was reported from but few localities.

BRIGHT SUNSHINE.

In British Columbia, Alberta and Saskatchewan the duration of bright sunshine was much less than the normal. In Manitoba there were more bright days than usual, and this was the case in Eastern Ontario also. Elsewhere there was little difference from normal.

SNOW ON THE GROUND.

In British Columbia there was sleighing on several days. At the close of the month in the Western Provinces the depth varied from a trace in Southern Alberta to 8 inches at Edmonton, 14 at Prince Albert, and about 6 inches over most of Manitoba. In Ontario the snow on the ground ranged from about 2 inches in the south to 27 inches in the Ottawa Valley, and 21 inches in New Ontario. Quebec and Northern New Brunswick reported a depth of from 20 to 48 inches of snow, and the Maritime Provinces 5 to 28 inches.

THICKNESS OF ICE.

Thickness of ice as reported from various stations was as follows:—

Western Provinces.—**Edmonton,** 22 inches; Medicine Hat, 24 inches; Swift Current, 30 inches; Qu'Appelle, 24 inches; Minnedosa, 27.5 inches.

Ontario.—Port Arthur, 14 inches; White River, 14 inches; Bruce Mines, 16 inches; Gravenhurst, 18 inches; Clinton, 4 inches; Strathroy, 10 inches; Port Burwell, 9 inches; Georgetown, 14 inches; Kingston, 7·5 inches; Lansdowne, 9 inches; Renfrew, 12 inches; Ottawa, 24 inches.

Maritime Provinces.—**Chatham,** 16 inches; Yarmouth, 8 inches; Sydney, 16 inches; Charlottetown, 12 inches.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JANUARY, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.
BRITISH COLUMBIA				in.	in.	in.	in.								
Alberni (Beaver Creek)	49 15	121 19	300	....				31.1	2.8	11	43.0	19	5.0	13	9.0
Agassiz	49 14	121 31	52					28.0	6.7	20	48.0	5	3.0	11	8.6
Atlin	59 35	133 38	2240	30.18	30.97	29.12	1.85	8.8		5	39.5	2	41.5	19	9.9
Barkerville	53 2	121 35	4180	29.86	30.62	29.18	1.44	5.0	13.5	21	32.0	4	40.0	10 13	10.2
Bella Coola	52 10	126 54	150					19.1	6.1	11	44.0	5	18.0	12 13	11.2
Babine Lake	55 38	126 26						2.5		3	36.0	6	47.5	11	19.1
Chilcotin (Big Creek)	51 40	123 0	3100					2.0		8	45.0	4	50.0	13	26.0
Cranbrook	49 30	115 50						11.0		2	41.5	6	33.0	14	16.9
Clayoquot	49 11	125 47	10					36.2	3.2	12	48.0	1	17.0	13	11.6
Cowichan (Tzouhalem)	48 25	123 42	170					33.9		5	47.4	7	16.0	12 13	8.7
Chilliwack	49 10	121 57	21					26.0	8.6	11	48.0	6	5.0	13	7.2
Enderby	50 32	119 7	1180					12.9		9	44.0	7	27.0	11	17.1
Fort St. James (Stuart's Lake)	54 28	124 12	2280					0.0	9.7	18	40.5	6	52.5	13	21.0
Fairview	49 11	119 36						6.6		2	21.0	6	12.0	12 13	14.6
Fruitvale	49 9	117 31						16.1		1	50.0	9	19.0	14	18.1
Glacier	51 14	117 29	4072					9.0	6.9	11	30.0	8 26	28.0	14	11.5
Golden	51 16	116 55	2550					1.6		9	31.0	7	30.0	14	16.5
Holberg	50 39	128 18						31.3		2	46.0	4	11.5	13	4.9
Hedley	49 35	120 10						17.5		7	48.0	9	20.0	13	14.0
Hedley (Nickel Plate)								7.7		6	28.0	5	35.0	13	15.2
Hope	49 23	121 25						21.7		1	44.0	6	13.0	13	6.4
Ikeda Bay	52 17	131 7										3			
Kamloops	50 41	120 29	1215	29.99	30.76	29.24	1.52	11.2	13.5	20	32.5	18	30.5	11	12.4
Ladner	49 5	123 4						34.2	1.7	10	50.0	7	1.0	12	9.5
Massett, Q.C.I.	53 58	132 9	30					30.7	5.4	14	49.0	3	4.0	13	12.2
*a*Nanaimo	49 10	123 37	125	29.81	30.46	28.90	1.66	33.6	2.4	10	48.0	22	13.0	16	9.3
Nicola Lake	50 9	120 39	2100					11.2	9.5	16	44.0	5 6	37.0	14	15.2
North Nicomen	49 12	122 2	50					28.6	6.5	19	49.0	7	5.0	14	9.4
New Westminster	49 13	122 54	330					30.8	1.6	21	44.0	7	0.0	13	7.2
Nelson	49 29	117 21	1760												
Needles								23.0		2	43.0	8	6.0	14	11.4
Okanagan Mission (Kelowna)	49 52	119 29	1200					17.4	7.7	11	44.0	5 7	16.0	14	14.1
Princeton	49 29	120 29	1600					10.5	6.2	14	43.0	5	18.0	12	18.5
Penticton	49 29	119 35													
Pemberton Hatchery	50 20	122 33						18.1		3	36.0	6	13.0	13	7.3
Prince Rupert	54 18	130 18	170	29.77	30.38	29.17	1.21	26.0		1	47.0	2	3.0	12	7.9
Quesnelle	52 59	122 30	1700					3.2	10.8	16	45.0	5	42.0	10	20.1
Revelstoke	51 0	118 6	1476				....	11.2	6.3	10	38.0	6	20.0	14	13.8
Rossland	49 5	117 48	3400					20.5		8	36.0	7	4.5	11	8.1
Ruskin (Stave Falls)	49 16	122 23	125					29.6		2	46.0	7	6.0	12 13	7.5
Salmon Arm	50 42	119 35	1152					8.9		9	44.0	6	27.0	14	11.7
Steveston (Garry Point)	49 21	123 17						31.6	4.2	15	46.0	5	0.0	11	9.4
Swanson Bay	50 37	126 53						23.8		3	43.0	5 23	8.0	11	10.8
Salt Spring Island	48 50	123 20						32.8		2	49.0	7	13.0	13	9.0
Summerland	49 37	119 0	1100					17.3		4	46.0	5	17.0	13	14.9
Sooke	48 41	123 44	25					37.8		1	50.0	1	15.0	13 15	12.6
Stewart	56 1	130 1	215					12.2		1	36.5	7	9.5	13	9.0
Tobacco Plains (Elko)	49 1	115 5	2684					19.9	2.8	15	49.0	7	19.4	14	12.5
Triangle Island	50 52	129 5	680												
*a*Tranquille	50 41	120 29													
Vernon (Coldstream Ranch)	50 14	119 15	1575					13.3	9.7	17	45.0	6	26.0	14	13.0
Victoria	48 24	123 19	85	29.90	30.62	29.03	1.59	36.2	−3.9	19	50.2	6	14.9	13	7.5
Vancouver	49 17	123 5	136	29.91	30.65	28.99	1.66	32.6	−2.0	10	44.0	7 16	6.1	14	6.4
Winter Harbour	50 32	128 3						—	—	15	47.0	3	42.0	11	—
Wilmer	50 34	116 14						7.1		2	35.0	28	32.0	13	15.9

STATION.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Mean miles per hour.	Highest day's velocity.	Date and direction from.
Atlin			6	5	18	12	2	2	7	0	6	7	8	62	1.6	16.0	11 N
Barkerville			7	17	0	0	0	0	0	6	0	0	56	62	2.1	40.0	22 SW
Kamloops		81	7	6	0	1	12	1	2	6	31	2	7	62	4.4	16.0	
*a*Nanaimo			8	16	0	0	0	17	1	1	0	10	33	62	4.3	33.0	1 SE
Prince Rupert			7	17	3	12	9	8	6	3	0	1	20	62	5.9	21.0	14 NE
Victoria		89	9	10	19	2	2	5	3	13	11	3	4	62	10.0	46.0	9 SW
Vancouver		89	9	18	0	2	25	9	2	3	1	1	19	62	3.6	40.0	

STATION.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of [illegible]	No. of thunderstorms.	No. of fogs.
Alberni (Beaver Creek)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
Agassiz	4.98	1.30	[illegible]	17	14	[illegible]		[illegible]
Atlin	0.75		0.17	10	21	1	0	0
Barkerville	[illegible]	3.17	1.70	13	18	0	0	0
Bella Coola	[illegible]	[illegible]	[illegible]	[illegible]	16	0	0	0
Babine Lake	2.83		0.75	11	20	0	0	0
Chilcotin (Big Creek)	[illegible]		[illegible]	[illegible]	[illegible]	0		
Cranbrook	[illegible]		[illegible]	11	20	[illegible]	[illegible]	[illegible]
Clayoquot	12.40	[illegible]	[illegible]	22	9			0
Cowichan (Tzouhalem)	6.34		1.46	18	13	0	0	0
Chilliwack	[illegible]	[illegible]	[illegible]	24	7	0	0	[illegible]
Enderby	2.43		[illegible]	16	15			
Fort St. James (Stuart's Lake)	[illegible]	[illegible]	[illegible]	11	20	0	0	0
Fairview	1.80		0.60	6	25	0	0	0
Fruitvale	[illegible]		0.20	15	16		0	
Glacier	12.96	[illegible]	1.50	26	5	0	0	0
Golden	[illegible]		1.00	12	19	0	0	
Holberg	[illegible]		[illegible]	26	5			
Hedley	2.92		[illegible]	6	25			
Hedley (Nickel Plate)	1.80		0.50	10	21	0		
Hope	6.97		1.00	21	10	0	[illegible]	
Ikeda Bay	11.72		2.00	20	11	0		
Kamloops	[illegible]	[illegible]	0.20	8	23	0	0	
Ladner	2.90	1.22	0.75	12	19	0	0	
Massett, Q.C.I.	5.20	0.78	[illegible]	[illegible]	[illegible]	0		
*a*Nanaimo	7.73	0.94	[illegible]	20	11			
Nicola Lake	[illegible]	[illegible]	[illegible]	9	22	0		
North Nicomen	8.17	0.32	[illegible]	21	10			
New Westminster	[illegible]	2.21	[illegible]	[illegible]	[illegible]	0	0	1
Nelson								
Needles	[illegible]		0.80	9	22	[illegible]		
Okanagan Mission (Kelowna)	1.19	[illegible]	[illegible]	10	21			
Princeton	[illegible]	[illegible]	[illegible]	10	21			
Penticton								
Pemberton Hatchery	[illegible]		0.75	[illegible]	[illegible]	0		
Prince Rupert	15.30		2.32	20	11	0	0	0
Quesnelle	1.05	[illegible]	0.40	8	23	0	0	[illegible]
Revelstoke	7.55	−2.51	[illegible]	20	11	0	0	0
Rossland	3.55		0.60	13	18	0	0	0
Ruskin (Stave Falls)	9.85		1.03	21	10	0	0	0
Salmon Arm	3.43		0.70	13	18	0	0	1
Steveston (Garry Point)	3.69	1.48	0.60	19	12	0	0	2
Swanson Bay	27.57		4.16	20	11	0	0	0
Salt Spring Island	6.42		1.01	21	10	0	0	0
Summerland	0.78		[illegible]	6	25	0	0	0
Sooke	7.94		1.20	21	10	0	0	1
Stewart	8.61		1.42	16	15	0	0	0
Tobacco Plains (Elko)	1.67	[illegible]	[illegible]	6	25	0	0	0
Triangle Island								
*a*Tranquille								
Vernon (Coldstream Ranch)	1.40	[illegible]	0.40	10	21	0	1	0
Victoria	4.90	[illegible]	0.31	22	9	0	0	0
Vancouver	6.11	0.91	0.68	25	6	0	0	1
Winter Harbour						0	0	[illegible]
Wilmer	2.09		0.80	14	17	0	0	0

YUKON :—																																										
Carcross	60	11	134	34	2171					−10·3	—	4	38·0	6	−45·0	26	15·4																		0·65	—	0·30	3	28	0	0	0
Dawson	64	4	139	20	1200	30·57	31·21	29·72	1·49	−35·0	—	8	2·0	4	−62·0	25	11·8			9	20	0	0	0	0	12	0	1	5	44	62				1·52	—	0·40	12	19	0	0	18
White Horse	60	45	135	0	2075					−24·0	—	7	35·0	2	−59·0	26	20·3																		0·20	—	0·05	6	25	0	0	0
ALBERTA—																																										
Athabasca Landing	54	43	113	17	1650					−18·4	—	8	37·0	3	−66·0	11	25·4					3	6	2	1	2	2	9	5	0	30				0·92	—	0·25	6	25	0	0	0
Alix	52	24	113	10						−6·3	—	8	42·0	2-3	−55·0	13	24·3					9	3	0	0	3	6	0	8	1	30				1·20	—	0·35	8	23	0	0	0
Banff	51	10	115	34	4542	30·00	30·85	29·41	1·44	5·0	−8·7	15	35·7	6	−36·5	10-11	19·1				4	1	11	2	4	0	17	17	1	9	62				3·12	+2·00	1·01	15	16	0	0	0
Blairmore	49	40	114	30	4225					5·8	—	1	39·8	4	−37·8	13	19·4																		0·65	—	0·45	4	27	0	0	0
Calgary	51	2	114	2	3389	30·04	30·74	29·48	1·26	−0·8	−13·5	26	46·0	4	−41·0	13	19·3				5	1	13	4	3	2	5	4	21	8	61				0·44	−0·02	0·16	7	24	0	0	0
Cardston	49	12	113	18						3·3		7	42·0	4	−46·0	12	28·2																		2·80	—	0·80	8	23	0	0	0
Didsbury	51	40	114	8	3300					−0·7	—	9	46·0	1	−50·0	13	18·6					1	8	4	4	0	2	6	5	0	30				0·30		0·10	3	28	0	0	0
*a*Dunvegan	55	56	118	35	1305																																					
Dayland	55	52	112	17						−11·3	—	4	40·0	3	−53·0	13	17·8					6	4	2	0	0	4	4	11	0	31				0·70	—	0·45	3	28	0	0	0
Edmonton	53	33	113	30	2158	30·10	30·80	29·41	1·39	−7·2	−15·5	27	42·0	3	−52·0	13	23·0				7	7	7	3	4	9	3	6	12	11	62				1·18	+0·47	0·35	14	17	1	0	0
Eckville	52	23	114	22						−9·5	—	7	45·0	5	−52·0	13 14	25·6																		0·60		0·20	3	28	0	0	0
Fort Vermilion	58	27	116	3						−29·0	—	7	7·0	3	−76·5	11	21·6																		0·91		0·30	8	23	8	0	8
Gleichen	50	59	112	54	2952					−3·9	—	8	41·0	4	−41·0	12	18·6																			—	—			0	0	0
Gilt Edge	52	59	116	43						11·2	—	2	28·7	5	−52·4	13	17·7					4	7	1	2	2	4	4	6	1	31				2·10		0·50	11	20	0	0	0
Hillsdown	52	14	113	29	2806					−5·0	—	7	42·6	4	−47·0	11	21·6					3	9	0	7	2	5	0	27	9	62				0·85		0·15	13	18	2	0	3
High River	50	35	113	53	3394					0·1	—	8	45·0	5-8	−43·0	13	23·3																		0·90		0·15	13	18	0	0	0
Harmattan	51	45	114	23	3500					4·5	—	3	47·0	5	−18·0	13	30·6																		0·48	—	0·20	8	23	0	0	0
Halkirk, (Emsburg)										−8·1	—	5	34·0	3-6	−44·0	13	18·5					6	5	1	9	1	15	1	20	2	60				0·50	—	0·30	5	26	0	0	0
Lethbridge	49	42	112	51	2961					4·4	−13·0	10	46·0	7	−39·3	12	28·7																		0·82	—	0·40	10	21	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						0·8	—	3	44·5	6	−38·8	1	30·2																		—	—		—	—	0	0	0
Lacombe	52	58	113	44	2783					−7·3	—	4	40·0	3	−47·5	13	23·3																		0·55	—	0·10	11	20	0	0	0
Lawrence	50	16	113	26						−1·6	—	5	38·0	4-6	−44·0	12	26·0																		0·80	—	0·20	8	23	0	0	2
Lunnford	54	33	114	19						−11·7	—	1	43·0	3	−61·2	13	26·7																		1·67	—	0·55	10	21	0	0	0
Loveland	52	30	111	59						−7·6	—	1	43·0	3-5	−45·0	12-13	22·1					1	5	1	3	0	7	0	13	0	30				—	—	—	—		0	0	0
Medicine Hat	50	1	110	37	2161																																					
Macleod	49	44	113	21	3128					2·9	−15·3	16	49·0	4	−45·0	12	27·2																		1·20	+0·76	0·60	3	28	0	0	0
Peace River Crossing	56	15	117	15						22·9	—	4	42·0	4	−70·0	12	22·0																		1·65		0·40	12	19	0	0	0
Pembina	54	12	114	0						−15·3	—	4	42·0	3	−60·0	13	26·6																		0·47	—	0·20	11	20	6	0	0
Pakan (Victoria)	54	0	112	31						−13·8	—	7	40·5	3	−62·0	13	33·1																		1·22	—	0·60	9	22	2	0	0
Pincher Creek	49	0	114	4	3750																																					
Red Deer	52	16	113	49																																						
Spirit River	55	40	118	47						−15·0		2	45·0	5	−58·0	13	20·3																		0·25	—	0·10	6	25	0	0	0
Threehills Creek	51	30	113	11						−8·3	—	9	41·0	4	−46·0	13	22·9																		0·70	—	0·20	8	23	7	0	0
Wetaskiwin	52	58	113	23	2480					−7·1	—	9	40·0	3	−50·0	13	16·5																		0·88	—	0·33	4	27	0	0	0
Waitefield	53	29	111	38	2000					−13·5	—	7	33·0	3	−57·0	13	21·4					14	10	5	13	7	7	6	26	5	93				1·30	—	0·50	19	12	7	0	0
SASKATCHEWAN—																																										
Battleford	52	41	108	20	1620																																					
Broadview	50	23	102	33	1960																																					
Brownlee	50	45	106	0						−8·2	—	1	32·2	3	−38·1	12	18·6					5	3	1	2	5	5	3	6	1	31				0·70	—	0·20	6	25	2	0	0
Chaplin	50	26	106	39	2202					−8·5	−9·8	23	31·0	3	−40·0	13	23·3					3	6	0	5	1	4	1	11	0	31				2·70	—	0·60	12	19	3	0	1
Cannington Manor	49	43	102	2	2064					−11·6	−12·3	12	22·0	6	−42·0	2	16·5																		1·20	—	0·30	8	23	0	0	0
Crescent Lake	50	59	102	25	1658					−15·2	—	7	23·0	24	−43·7	13	25·0					4	4	0	4	6	2	3	8	0	31				1·58	—	0·35	9	22	5	0	0
Duck Lake	52	54	106	20						—	—	6	—	—	−47·1	13	—																				—	—		0	0	0
Estevan	49	12	103	4	1858					−6·0	−9·5	10	30·0	3	−36·0	1	19·1					4	2	7	3	1	5	5	2	2	31				0·80	—	0·20	5	26	1	0	0
Esterhazy (Fairfield)	50	39	102	4						−17·3	—	3	23·0	24	−49·0	15	20·4					2	3	2	5	2	1	1	12	3	31				4·55	—	0·70	12	19	3	0	2
East End	49	31	108	49																																						
Foxleigh	50	37	104	29						−9·6	—	4	32·0	3	−40·0	13	19·6																		—			—		0	0	0
File Hills	51	4	103	31						−15·1	—	1	28·0	3	−50·0	13	22·4																		1·4	—	0·80	4	27	0	0	0
Grenfell (Brownhill)	50	23	102	53	1957					−8·9	−7·6	20	25·0	3	−39·0	13	20·4					2	9	2	10	5	9	0	23	0	60				2·10	—	0·40	11	20	2	0	1
Govan	51	17	101	54						−12·0	—	2	30·8	4	−40·2	13	21·0																		3·6		0·60	12	19	0	0	0
Glenbryan (Larchmont)										−10·9	—	1	30·0	31	−45·5	1	18·9					1	12	0	3	2	15	12	6	1	62				1·25		0·30	7	24	3	0	0
Humboldt	52	12	105	9						−20·2	—	6	16·0	31	−42·0	11-14	17·4																		1·44	—	0·25	13	18	0	0	0
Hubbard (Drumague)	51	5	103	24																																						
Indian Head	50	28	103	40	1924					−11·8	−13·2	20	23·0	23	−41·0	13	19·8					4	8	14	8	16	9	3	29	2	93	III	X	3 NW	2·97	+2·63	0·73	11	20	0	0	0
Kamsack	51	30	101	52																																						
Lloydminster	53	18	110	0						−15·6	—	5	35·5	4	−58·0	13	20·9																		—	—		—		0	0	0
Lanigan	51	51	105	2																																						
Le Pas	53	49	101	15	860																																					
Moose Jaw	50	21	105	35	1759																																					
Moosomin	50	0	101	37	1884					−12·5	—	8	31·0	28	−39·0	14	17·7					1	1	1	2	0	4	5	17	0	31						—	—		0	0	0
Meota	51	0	108	20	1700					−17·5	—	5	32·0	3	−61·0	12	21·2																				—	—		3	0	2
Muenster (St. Peter's Monastery)	52	0	105	0	1870					−14·8	—	7	23·0	3	−47·0	13	23·0					4	8	2	5	0	3	0	9	0	31				2·00		0·60	6	25	0	0	0
Melfort	52	47	104	30						−17·9	—	2	18·0	23	−48·5	11	18·4																		0·80		0·20	5	26	3	0	0
Maple Creek	49	55	109	28																																						
Onion Lake	53	52	109	59						—	—	5	—	—	−60·0	13	—					5	12	5	1	0	0	1	5	2	31				—					0	0	0
Oliver	51	46	108	10						−13·1	—	1	29·0	5	−43·0	13	17·8																		1·70	—	0·30	10	21	3	0	0
Pense (Gatesgarth)	50	20	105	0	1879					−10·5	−13·5	16	30·0	3	−46·0	13	22·0					7	4	5	2	0	2	8	3	0	31				—		—			0	0	0
Prince Albert	53	10	106	0	1432																																					
Qu'Appelle	50	30	103	47	2115																																					
Regina	50	27	104	37	1885					−11·8	−7·9	24	19·0	17	−45·0	14	19·3																		0·63	−0·25	0·10	10	21	0	0	1
Rathmullen	51	20	108	57						−10·8	—	1	30·5	4	−41·5	14	22·2																		0·92	—	0·25	9	22	0	0	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JANUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in one day.	No. of days with .01 or more	No. of [illegible] days	[illegible]	[illegible]	[illegible]
SASKATCHEWAN—*Con.*	° '	° '		in.	in.	in.	in.																																	
Rosthern	52 40	106 20	1657					17.2		1	22.9	1	45.0	13	19.0																		2.20		0.60	7	24	0	0	0
Swift Current	50 20	107 45	2439																																					
Saskatoon	52 15	106 30	1571					11.9	13.1	20	33.2	1	45.2	13	21.3																		2.60	2.41	0.40	15	16	0	0	0
Strassburg	51 5	104 56						10.2		1	32.0	3	41.0	12	18.7																							0	0	0
Scott (Hearts Hill)	51 30	109 30						26.1		1	13.0	21	57.5	12	20.5																		0.18		0.10	3	28	0	0	0
Stanley Mission								2.3		1	36.0	22	13.0	30	17.5					13	9	7	5	0	2	6	7	13	62				0.15		0.10	7	24	1	0	0
Waseca	53 6	109 29						15.9		4	32.0	3	52.0	13	20.0					6	7	3	2	0	4	2	11	2	31				1.15		0.50	7	24	0	0	0
Yorkton	51 11	102 29																																						
MANITOBA—																																								
Almasippi	49 11	99 20						10.4		9	28.0	23	41.0	3	18.6																		0.10		0.10	4	27	0	0	0
aAweme (St. Alban's)	49 42	99 34	1180	28.79	29.26	28.41	0.85	10.5	7.6	21	21.5	23	42.5	11	20.2																		1.53	0.41	0.43	18	13	5	0	0
Brandon	49 51	99 57	1176					11.0	11.3	24	21.9	23	44.1	11	18.7			6	9	2	32	3	2	0	7	14	32	1	93	1	111	21 N.E.	1.90	+1.07	0.50	9	22	0	0	0
Berens River	52 18	97 23	710					17.2		4	16.0	24	43.5	3	23.3					22	5	7	7	5	1	13	2	0	62				0.10		0.3	2	29	0	0	0
Carberry	49 52	99 20	1258																																					
Carman	49 31	98 0	872																																					
Cypress River	49 33	99 3	1232																																					
Dauphin	51 8	100 2	957					14.5		6	25.0	21	45.0	11	20.6																							0	0	0
Hillview	49 55	100 33	1400					15.9	11.1	25	20.0	23	13.0	3, 11	16.9			5	10	10	3	15	9	0	10	5	41	0	93				2.30	+1.28	1.20	7	24	0	0	0
Minnedosa	50 15	99 50	1680	30.11	30.70	29.60	1.10	11.5	10.9	27	29.0	29	13.2	3	21.1			5	6	1	6	1	1	0	2	6	13	29	62				1.19	+0.31	0.54	13	18	1	0	0
Morden	49 11	98 6	978					6.9		7	28.0	23	31.0	11	19.3					1	1	1	2	1	4	2	10	9	31				1.26		0.20	14	17	0	0	0
Moose Horn Bay (Aitkensville)	51 15	99 33						16.4		1	22.8	21	40.1	11	18.9					25	3	4	7	7	0	1	8	4	62				1.56		0.42	14	17	13	0	0
Ninga	49 14	99 51	1649					8.0		1	31.7	28	36.0	11	18.1																		1.87		0.40	10	21	0	0	0
Oakbank	49 57	96 42	800					10.5	4.7	16	19.5	23	45.0	3	17.0					9	2	0	2	4	2	2	10	0	31				0.90	0.01	0.50	3	28	0	0	0
Pipestone	49 34	100 58	1400																																					
Portage la Prairie	49 57	98 17	830					11.2	7.9	21	25.0	23	38.0	10	17.4																		2.25	0.65	1.10	7	24	0	0	0
Portage la Prairie (2)	49 56	98 17																																						
Pierson	49 11	101 5	1531																																					
Stony Mountain	50 40	97 11	803					11.7	9.0	29	18.0	21	42.0	3	21.2					4	12	7	5	6	4	6	18	0	62	2.4	4.9		0.80	+0.40	0.40	4	27	0	0	1
Swan River	52 6	101 15	1112					16.2		3	21.0	23	43.0	2	17.0																		0.70		0.60	2	29	0	0	0
Treherne	49 39	98 40	1212					16.0	12.1	15	28.0	23	—28.0	11	15.6																		1.06		0.25	10	21	0	0	0
Virden	49 51	100 55	1444																																					
Winnipeg	49 53	97 7	760	30.19	30.74	29.60	1.14	10.4	7.5	37	20.4	23	37.0	11	18.4			5	1	9	1	6	4	6	1	12	15	5	62				0.43	0.54	0.14	11	20	0	0	0
ONTARIO—																																								
Alton	43 51	80 5	1250	....	....			18.7	+1.0	25	43.0	15	12.8	4	17.8			5	1	0	3	0	15	22	15	38	0	0	93	11	N	30 W	0.60	1.67	0.19	7	24	0	0	3
Aurora	43 57	79 24	886	....	....			19.6		3	41.6	2	16.4	16	19.3																		1.47	0.63	0.22	14	17	0	0	0
Agincourt	43 47	79 16	590					22.1	+3.1	15	42.2	2	8.0	16	13.5					3	9	11	8	5	14	12	21	3	93				1.81	0.49	0.56	16	15	0	0	3
Barrie	44 23	79 41	839																																					
Beatrice	45 8	79 20	800					16.6	+3.6	31	42.0	2	21.0	4	21.7			7	15	0	0	2	10	21	6	3	22	26	93	11	1N		2.06	2.01	0.45	9	22	0	0	0
Bruce Mines	46 18	83 55	595					13.0	0.7	14	39.0	24	8.0	4	19.5																		0.70	1.30	0.40	3	28	2	0	0
Birnam	43 2	81 55	600					25.3	+4.6	29	42.8	27	0.0	5	9.8					2	1	1	3	15	11	9	19	1	62				1.37	1.84	0.42	10	21	0	0	9
Brantford	43 10	80 21	750					25.3	+1.9	30	45.0	26	4.0	3	13.4																		1.29	1.13	0.89	3	28	0	0	2
Bloomfield	43 59	77 24	260					20.8	+0.1	11	42.0	3	13.0	4	15.2																		1.19		0.35	7	24	0	0	0
Bancroft	45 1	77 50																																						
Copper Cliff	46 30	80 59						8.7		5	36.5	11	33.0	4	25.4																		1.10		0.40	4	27	0	0	0
Clinton	43 32	81 37						22.0		8	44.0	27	12.0	18	13.7					4	2	2	10	21	3	10	10	0	62				3.75		0.40	18	13	0	0	0
Coldwater	44 28	79 40	690					16.2	+0.9	22	41.0	2	25.0	4	22.0																		1.93	2.33	0.53	7	24	0	0	0
Cottam	42 7	82 45	606					21.8	1.0	23	49.0	27	3.0	3	18.4					21	0	1	5	9	11	12	3	0	62				2.24	0.09	0.45	7	24	0	0	3
Chatham	42 23	82 12	595					26.6	+1.8	21	49.0	27	0.0	4	15.7																		2.14	0.32	0.58	5	26	0	0	0
Cochrane	49 2	81 0	930			....																																		
Collingwood	44 31	80 2						26.8	+6.6	19	50.0	7	2.0	3	17.3																		1.55		0.40	9	22	0	0	0
East Toronto	43 35	79 18						23.7		4	42.0	2, 11	7.0	3	16.0																		2.80		1.05	12	19	0	0	3
Elora	43 41	80 24	1271					21.0	−3.0	15	41.0	12	6.0	18, 19	11.5																		2.21	0.81	0.81	12	19	0	0	2
Gravenhurst	44 51	79 20						15.3	+0.5	10	42.0	1	26.6	4	24.1			6	7	5	1	15	28	8	8	3	14	14	93	11	N	30 W	2.64	0.70	0.67	15	16	2	0	0
Guelph	43 33	80 16	1050					23.2	+3.1	23	42.0	2	1.0	18	13.0																		1.13	1.07	0.30	5	26	0	0	1
aGrimsby	43 13	79 36		29.72	30.18	29.18	1.00	26.3		2	47.0	27-28	3.0	4	15.1																		2.19		0.61	11	20	0	0	0

ONTARIO—*Concluded.*																																										
Haileybury	47	29	79	39	687	30·11	30·68	29·11	1·57	5·1	+0·1	17	37·8	11	31·9		4	25·1				8	1	3	6	6	4	8	13	13	62	I	III	—	1·20	0·83	0·47	13	18	3	0	3
Hamilton	43	16	79	51	303					26·2	+3·2	35	44·0	2 27	0·0		4	10·2																	1·60	–1·48	0·40	9	22	0	0	1
Haliburton	45	1	78	28	1050					14·8	+1·1	25	40·0	2	25·0		17	22·7																						0	0	0
Huntsville	45	19	79	8						15·6		4	45·0	11	22·0		1	21·1																						0	0	0
Kenora	49	18	94	32	1102					9·5	11·9	12	25·0	29	37·0		5	17·4																	0·90		0·40	3	28	4	0	0
Kakabeka Falls	48	29	89	26	912					2·9		3	35·0	10	41·0		3	30·4																	1·10		0·25	8	23	3	0	0
Kingston	44	13	76	29	285	30·14	30·55	29·31	1·24	18·5	+0·3	36	40·0	2	16·0		1	18·1		7	13	2	21	0	3	0	17	10	9	0	62				1·17	1·40	0·30	23	8	1	0	0
Kinmount	44	45	78	38	920					—		12	40·0	2	28·0		3																		1·05		0·50	6	25	0	0	0
Lucknow	43	56	81	30	908					21·9	+2·0	21	38·4	2	3·4		16	13·2																	2·85	1·47	0·74	22	9	1	0	6
Lake Talon	46	15	78	48						8·5	+0·8	16	44·5	2	32·5		1	19·7																	0·80	1·56	0·40	4	27	2	0	0
London	42	59	81	13	808	30·07	30·51	29·26	1·25	25·1	+3·2	28	45·5	27	8·0		18	13·1		8	20	0	6	0	30	0	7	35	15	0	93				4·17	+0·45	0·85	19	12	0	0	2
Lakeside Home	43	40	79	24						26·6	—	6	45·0	2-11	1·0		16	14·2																						0	0	0
Lorne Park	43	32	79	37						25·4	—	3	45·0	2	–6·0		4	15·9																	2·68		0·75	9	22	0	0	2
Lindsay	44	20	78	45	872					18·4	+2·9	30	40·2	2	–14·5		4	19·6		7	10	11	2	8	8	8	9	15	16	16	93				1·28	–2·75	0·27	14	17	0	0	6
Lakefield	44	25	78	15	850					19·9	+5·4	24	48·0	3	11·0	4	5	21·5																	2·30	0·14	0·30	10	21	0	0	0
Meaford	44	37	80	37	600																																					
*Midland	44	44	79	53	750					21·5		3	42·0	8	12·0		4	—																	1·30		0·84	3	28	0	0	0
Madoc	44	30	77	29	575					14·8	—	7	40·0	2 11	13·0		16	19·7																	2·83		0·82	13	18	1	0	0
Montague	44	56	75	57						11·7	—	1	42·0	2	–19·0		5	23·4																	0·85		0·20	8	23	1	0	0
Montreal River										3·8	—	1	41·0	25	–35·0	4	6	29·7																	2·00		0·50	8	23	0	0	0
*North Bruce	44	23	81	25						21·7	+2·6	22	40·0	11	4·0		4	—				6	0	16	3	29	8	19	12	0	93				1·78	–1·44	0·21	19	12	1	0	3
Owen Sound	44	31	80	55	597					16·7	–2·6	30	52·0	27	–6·0		4	16·7				6	0	0	0	29	18	2	7	0	62				3·20	–1·23	0·60	6	25	0	0	0
Orillia	44	34	79	24	775					18·2	+1·9	17	43·0	2	–17·0		4	15·3				1	1	1	2	9	7	6	2	0	29				0·65		0·40	4	27	0	0	1
Ottawa	45	26	75	42	294	30·13	30·67	29.16	1·51	11·2	–0·8	28	40·0	11	–17·0		18	21·7				5	6	14	2	0	8	15	12	0	62				1·78	–1·21	0·27	16	15	0	0	0
*Ottonabee	44	20	78	18	674					20·3	+2·0	14	40·0	2-11	–11·0		1	—				2	1	15	2	14	13	16	13	17	93				1·03	–1·17	0·28	6	25	0	0	0
Port Arthur	48	27	89	12	644	30·10	30·64	29·35	1·29	4·0	3·0	30	35·0	10	30·0		3	25·3		6	8	6	6	2	4	2	4	13	21	1	62				0·56	–0·13	0·23	8	23	0	0	0
Port Stanley	42	40	81	13	592	30·16	30·62	29·36	1·26	26·4	+3·1	35	44·0	27	3·7		5	12·7		8	19	2	3	6	9	1	6	14	14	7	62				2·84	–0·49	0·66	22	9	0	0	10
Port Dover	42	47	80	13	635					25·7	+3·1	36	46·5	27	2·5		4	11·7				7	4	1	2	0	6	7	4	0	31				3·38	–0·01	0·62	25	6	0	0	0
Port Burwell	42	39	80	55	592						—	7	41·0	27	—		—																					—		0	0	2
Parry Sound	45	19	80	0	635	30·09	30·49	29·23	1·26	17·6	+2·5	35	43·0	2	18·0		4	20·4		7	13	6	7	4	18	1	11	2	12	1	62				2·53	1·93	0·60	13	18	0	0	1
Point Clark	44	5	81	44	595					—		38	40·0	11-26								20	1	7	4	41	6	9	2	0	93									0	0	0
Pelee Island	41	50	82	35	585					33·7	+9·1	24	62·5	25	12·5	29	31	8·5																						0	0	0
Paris	43	12	80	25	840					26·1	+4·7	22	45·0	22	–1·0		4	14·7																	2·39	0·44	0·70	9	22	0	0	0
Peterboro	44	17	78	19	722					17·1	+0·4	39	40·0	1 11	15·0		4	20·5																	0·98	–3·02	0·32	7	21	0	0	1
Ronville	45	15	78	57	1038					13·3	–	4	42·0	2	22·0		16	19·5																			—			0	0	0
Renfrew	45	26	76	39	416					12·8	+2·5	21	45·0	2	14·0		4	21·0																	1·67	–0·02	0·60	12	19	0	0	3
St. Catharines	43	9	79	17	347					27·1		1	48·0	3	1·5		4	15·8																				—		0	0	0
Stonecliffe (Rockliffe)	46	9	78	6	557	30·15	30·59	29·43	1·16	8·5	+1·7	33	40·0	2	25·0	17	31	27·2				8	2	1	0	0	1	15	4	31	62				0·67	1·32	0·18	11	20	0	0	0
Southampton	44	30	81	24	656	30·10	30·53	29·22	1·31	24·1	+2·2	34	42·0	2	2·1	3-	4	15·0		9	22	3	4	3	10	11	19	2	9	1	62				3·44	0·53	0·55	22	9	0	0	1
*Sarnia	42	59	82	24	586					25·6	+0·7	16	43·0	27	2·0	4	5																		0·00	1·87	0·00	0	31	0	0	0
Stratford	43	23	81	0	1191																																					
Stony Creek	43	13	79	45	292					28·6	+1·1	28	46·0	27	7·0	5	16	13·4		6	10	1	2	10	7	4	27	31	11	0	93	III	VI	5 W	1·28	1·79	0·45	6	25	0	0	2
Schreiber	48	50	87	15						1·1	4·1	10	41·2	29	31·8		15	30·3																	3·60		1·60	7	21	2	0	0
Shelburne	44	5	80	47						19·2		2	38·0	2	9·0		4	11·7																	0·62	–	0·20	4	27	0	0	2
Toronto	43	40	79	24	350	30·13	30·57	29·31	1·26	25·9	+3·0	70	44·1	2	1·7		16	11·2				9	5	8	2	4	14	18	2	0	62				2·08	0·73	0·46	18	13	0	0	3
Uxbridge	44	5	79	8	886					19·7		7	40·0	2	12·0	4	16	12·3																	2·00		0·36	16	15	0	0	0
Uplands	45	18	79	25						11·3	+3·4	21	41·0	2	29·5		1	21·2				8	1	9	1	15	2	18	0	8	62				1·29	2·62	0·51	7	24	0	0	0
Ursa	44	54	78	18						5·1		1	31·0	11	20·0		17	15·0																	1·52		0·80	8	23	0	0	0
White River	48	35	85	16	1252	30·06	30·58	29·26	1·32	–3·1	4·0	21	34·0	10 11	48·0		6	33·4				6	1	3	6	5	4	6	8	23	62				0·28	1·45	0·07	10	21	0	0	0
Woodstock	43	8	80	47	980	30·13	30·58	29·25	1·33	25·3	+0·9	36	57·0	25	5·0		18	16·7	83	8	18	0	5	1	11	8	32	15	21	0	93	12·6	23·0	2 SW	2·56	0·91	0·36	12	19	0	0	0
Welland	42	59	79	17	577					27·2	+6·2	24	45·0	2	–5·0		4	13·4																	2·25	1·89	0·67	16	15	0	0	0
Windsor	42	20	83	4	625																																					
Wallaceburg	42	35	82	24						26·5	—	5	47·0	27	4·0		3	12·3																	1·23		0·40	8	23	0	0	0
Woodford	44	35	80	47						20·2		1	46·0	2	9·0		4	16·0																						0	0	0
QUEBEC—																																										
Abitibi	48	43	79	22						–4·2	–2·5	15	32·0	11	47·0		6	30·1		6	8	16	7	11	13	11	6	17	9	0	93	III	VII	5 NW	1·30	0·68	0·60	5	26	1	0	0
*Anticosti, E. Point	49	6	61	42	30																																					
*Anticosti, W. Point	49	52	64	32	30																																					
Brome	45	10	72	36	678					13·9	+1·4	30	44·0	2	–26·0		18	17·4				8	2	4	2	21	11	39	0	6	93				0·65	1·48	0·40	1	27	0	0	2
*Bicquet	48	25	68	53																																						
Clarke City	50	10	66	25						1·6	–	5	29·0	3	36·0	18	12	22·5				1	2	4	0	0	3	7	11	0	31				1·40		0·70	15	16	0	0	0
*Cape Chatte	49	6	66	45						9·6	1·9	22	31·0	3 4	17·0		18	—				1	9	7	1	3	2	41	12	14	93				3·11		1·01	8	23	0	0	6
*Cape Magdalen	49	16	65	20	93					9·7	1·4	22	38·0	3	15·0	16	17																		3·61		1·00	9	22	0	0	0
Chicoutimi	48	25	71	5	150					—		33		—	—		—			6	7	0	0	0	17	0	35	0	11	0	93	IV	IX		1·03		0·22	10	21	3	0	5
Disraeli	45	55	71	21	896					12·8		1	43·0	2	–29·0		18	23·1																	2·10		0·70	6	25	0	0	0
Father Point	48	31	68	19	20	29·98	30·61	28·88	1·73	9·1	+0·6		41·0	3	17·0		17	22·3		7	9	7	1	5	1	9	10	8	18	3	62				2·90		0·60	14	17	0	0	0
Lake Edward	47	39	72	15	1333					1·8		1	38·5	3	38·0		18	31·9																	1·90	–	0·30	10	21	0	0	0
Montreal	45	30	73	35	187	30·11	30·64	29·01	1·63	12·7	+0·5	36	42·7	2 3	–12·0		16	19·8		6	7	10	2	1	9	10	19	9	2	0	62				2·12	1·03	0·33	17	14	1	0	0
Quebec	46	48	71	13	296	30·07	30·63	28·92	1·71	8·5	1·6	36	40·6	3	20·0		17	21·1		6	13	1	11	1	1	0	18	19	5	0	62				3·46	–0·26	0·64	12	19	0	1	1
*Roberval	48	31	72	13	352																																					
St. Anne de Bellevue	45	27	73	59						10·6		5	44·6	2	–22·0		5	16·6																	0·23	—	0·21	3	28	0	0	0
Shawinigan Falls	46	34	72	43						2·2	—	8	37·0	22	32·0		18	21·9																	—				—	0	0	0
Sherbrooke	45	32	72	5	620					12·0		8	46·7	3	20·5		18	26·3																	1·84		0·41	22	9	0	0	0
Shawbridge	45	54	74	3																																						

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. JANUARY, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level in feet.	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Temperature: Difference from average	Temperature: Years observ'n	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: Mean daily range	Mean temperature of dew point	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations	Velocity of wind: Mean miles per hour	Highest day's velocity	Date and direction	Precipitation: Amount	Difference from average	Heaviest fall in month	Days with .01 or more	No. of fair days	No. of auroras	No. of thunder storms	No. of fogs
New Brunswick																																								
Bathurst	47 30	65 42	45																																					
Chatham	47 3	65 29	21	30.04	30.63	28.83	1.80	12.4	- 1.0	36	46.0	3	24.0	18	23.0			5	4	0	0	11	0	0	14	21	11	2	62				3.48	0.10	0.56	17	11	0	6	0
Dalhousie	48 4	66 22	30							30	32.0	10	19.0	17 23	19.0					0	0	4	2	1	1	23	0	0	31				3.40	+ 0.28	0.90	6	25	0	0	0
Fredericton	45 57	66 36	164					18.2	- 5.5	39	46.5	21 25	15.0	18	17.8		87	6	8	5	3	6	3	4	5	23	41	3	93	9.0	22.7	16 N W	4.08	+ 1.11	1.50	10	21	0	0	0
Grand Manan	44 47	66 46	49	30.06	30.59	28.91	1.68	21.8	- 1.3	26	51.7	4	9.0	17	19.0					6	12	3	3	3	15	6	14	0	62				2.45	2.29	0.80	11	20	1	0	2
Moncton	46 9	64 45	50					15.6	- 0.2	14	51.0	2 3	20.0	17	20.8					0	6	2	4	0	2	0	17	0	31				2.09	0.52	0.72	7	24	0	0	0
*Point Lepreaux	45 4	66 28	30					22.8	+ 2.8	33	46.0	3	10.0	17 18				6	10	13	5	5	4	2	15	5	29	0	78	IV	V		3.30	1.44	1.00	8	23	0	0	1
St. John	45 17	66 4	70	30.05	30.63	28.87	1.76	21.4	- 1.7	38	47.0	2 3	14.0	17	20.5			6	11	5	7	2	3	8	8	2	20	1	62				3.29	1.25	0.58	17	14	0	0	2
St. Stephen	45 11	67 16	35					17.1	+ 1.3	14	50.0	2	23.0	18	20.7																		3.27	0.83	1.02	6	25	0	0	0
Sussex	45 38	65 38	60					19.3	+ 4.3	14	50.0	2 4	18.0	17 18	20.1					1	1	0	1	0	5	2	7	14	31				3.25	1.30	0.60	6	25	0	0	0
Nova Scotia																																								
Antigonish	45 38	61 59	50					20.6		1	57.0	4	20.0	18	20.7																		0.85		0.85	1	30	0	0	0
Halifax	44 39	63 36	88	30.03	30.65	28.90	1.75	21.3	+ 0.2	36	52.0	4	10.8	18	18.7					6	11	3	4	2	5	13	16	2	62				6.30	+ 0.54	1.16	21	10	0	0	0
Port Hastings	45 39	61 22	45							20	51.0	4	11.0	18						0	4	0	4	1	5	0	17	0	31				3.06	1.13	0.90	7	21	0	0	0
Parrsboro'	45 23	64 19	40					20.4	+ 1.3	15	50.0	3	14.0	16 17	21.1																							0	0	0
Sydney	46 10	60 10	35	29.98	30.62	28.81	1.81	23.9	- 1.8	37	51.0	4	2.4	19	17.6			8	17	2	1	1	6	4	8	14	23	3	62				5.97	+ 0.70	1.10	14	17	0	0	0
*Sable Island, E. Point	43 58	59 46	25					33.6		26	49.0	3 9	4.0	17						0	11	0	12	2	29	0	39	0	93				5.65	+ 1.36	1.50	8	33	0	0	6
Truro	45 22	63 18	77					20.6	+ 1.3	36	53.8	4	17.0	21	22.5			7	9	9	4	10	5	3	21	11	23	1	93				4.25	+ 0.16	0.75	18	13	1	0	2
Windsor	44 59	64 6	90					22.1	1.5	34	57.0	4	14.0	17	17.3																		2.77	0.10	0.70	13	18	0	0	0
*Whitehead	45 15	61 8	20					23.4	1.2	27	43.0	2	7.0	18						8	5	9	5	1	18	18	26	0	93				4.68	+ 1.01	0.75	8	23	0	0	3
a Wolfville	45 7	64 20		29.97	30.55	28.83	1.72	23.4	- 1.4	10	59.6	4	11.0	17	19.7					4	2	6	3	6	8	11	17	2	62				2.58	1.56	0.90	15	16	0	0	6
Yarmouth	43 50	66 2	65	30.07	30.64	29.05	0.59	26.9	+ 0.3	30	50.3	4	0.0	17	17.1					14	2	7	6	6	9	3	12	3	62				4.20	0.96	0.65	20	10	0	0	3
P. E. Island—																																								
Charlottetown	46 14	63 10	38	30.00	30.62	28.84	1.78	19.2	- 0.6	35	47.3	4	14.0	18	18.7					1	3	1	7	5	14	17	11	3	62				3.01	+ 0.40	0.60	14	17	0	0	0
Charlottetown (2)	46 11	63 7	75					18.2		1	49.5	4	15.0	18	18.5																		3.81		0.92	13	18	0	0	0
Hamilton	46 25	63 48						18.0	+ 0.7	13	50.0	3	14.0	18	12.9					0	1	0	2	5	6	9	8	0	31				2.83		1.00	7	24	0	0	0
Newfoundland—																																								
*Amour Point	51 28	56 51																																						
Burin	47 0	55 10	27	29.95	30.55	28.93	1.62	23.6	—	2	50.0	1	4.0	27	20.2					7	5	1	5	6	11	9	16	0	62				3.98		0.78	14	17	0	0	0
*Cape Norman	51 38	55 52																																						
Fogo	49 43	54 17	30	29.87	30.44	28.74	1.70	16.4	—	1	46.0	4	10.0	17	14.2					6	3	1	4	4	9	15	20	0	62				6.17		1.60	19	12	0	0	0
*Point Rich	50 42	57 25	35					12.5	0.2	25	32.0	31	13.0	17						21	6	2	3	11	16	12	19	0	93				2.10	0.76	0.40	11	20	0	0	6
Port aux Basque	47 35	59 10	27	29.92	30.53	28.84	1.69	20.3		2	43.5	3 4	5.5	17	15.6					6	2	7	2	4	11	6	21	0	62				8.51		1.13	27	4	0	0	2
St. John's	47 34	52 42	125	29.85	30.47	28.80	1.67	22.1	- 2.1	38	57.0	4	10.0	17	14.9			7	6	6	2	1	6	7	13	11	16	0	62				5.18	1.11	1.04	17	14	0	0	0
Bermuda—																																								
Prospect	32 17	64 30	151	30.31	30.63	29.87	0.76	60.9	- 1.6	20	72.0	23	47.4	17	10.4					11	5	6	2	14	1	17	3	3	62				1.78	3.12	0.48	12	19	0	1	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JANUARY, 1911.

STATIONS.	RAINFALL. Amount in inches	No. of Days .01 or over	No. of Fair Days	Heaviest Fall in Month	Date	SNOWFALL. Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	REMARKS.
	in.			in.		in.		in.		
BRITISH COLUMBIA—						8·7	11	4·0	9	
Alkali						33·0	22	4·1	15	Thunderstorm on 25.
Alberni						16·5		6·0		
Annis						38·0	19	13·0		
Beaver Lake						12·4	8	4·8		
Bear Creek										
Coquitlam						92·5	15	12·0	18	
Denman's Island						36·0	16			
Ferguson						44·9	11	3·3	17	
Goldstream Lake										
Grand Forks						3·0	3	1·0	21, 26	
Hornby Island										
Jordan River								9·0	12, 27	Fog on 5.
Little Qualicum (French Creek, V.I.)								1·5	9	
Monte Creek							11	19·0		
Naas Harbour								10·4	14	
Skidegate							12	8·5	6	
Swift River Dam										
ALBERTA—										
Bardo						3·3	6	1·0	9, 18	
Bismark						3·9		3·3	9	
Bruederheim						7·6	3	3·0	19	
Bittern Lake						5·5		2·0	10, 26	
Bantry										
Brooks						3·5	7	1·0	8	
Conjoring Creek										
Coutts						10·7	9	4·5	9	Aurora on 1, 2; fog on 13.
Campsie						35·7	11	16·0		
Caldwell						20·0	8	1·0	5, 23	
Dorenlee										
Elkwater						12·0	1	2·0	9	
Grassy Lake						7·5	4	4·5	10	
Jumping Pound										
Kimball						7	1	7	9	
Lacombe										Aurora on 4, 29.
Langdon						5·8	6	2·5	9	
Loch Sloy						1·2		1·0	11	
Lineham						10·7	4	5·1	10	
Lyndon						1·8	3	1·0	9	
Many Berries Ranch						16·0		6·0	9	
Macleod						25·5	8	12·3	9	
Mayeroft						1·8		1·8	9	
Okotoks						8·5	4	3·0	5, 26	
Ponoka						5·5		2·8	9	
Seven Persons						20·0	13	4·0	19	Aurora on 6, 17, 23, 24, 25, 26, 27, 28, 29.
Sion						30·1	4	15·0	18	
Tilley										
Wabamun										
SASKATCHEWAN—						16·7	6	4·5	11	
Carmichael						9·5	7	3·3	10, 31	
Coulee										
Elm How						13·0	7	1·0	9	
Gull Lake										
Hanley						8·3	11	3·0	9	
Last Mountain						15·4	15	3·3	25	
Maple Creek						5·0	3	3·0	19, 31	
Kindersley						6·0		3·0	31	
Kelvinhurst										
Willow Creek										
MANITOBA—						16·5	9	6·0	31	Aurora on 24, 27.
Cartwright						12·5		4·5	7, 9	Aurora on 24.
Deloraine						10·4	4	4·0	4	
Gretna						4·5		3·5	8	
Norquay						13·7	9	3·3	10	
Rapid City										
ONTARIO—						1·0	1	1·0	25	Fog on 11, 12, 13, 14.
Arden	2·15	4		0·85	14	1·3		3·5	6	
Deer Park	1·01			0·41		4·0	1	1·0	5	
Dutton	0·50			0·40		5·0		4·0	9	
Emsdale	0·38			0·15		6·0	1	3·5	6	Fog on 1, 11, 25, 26, 27; aurora on 24.
Georgetown	0·86			0·28		5·6		5·5	4	
Grantham	0·59									Fog on 25, 28
Grand Valley	0·50			0·30		12·0	8	12·0	16	
Goderich	0·15			0·15		12·0		3·0	10	
MacCue	0·74			0·30		11·9	10	3·0	9	
Orangeville	0·74			0·35		8·0		3·0		
Princeton	1·35			0·60		11·0	4	4·0	6	
Sydenham	1·62			0·36		9·5		5·0		
Strathroy	1·11			0·50						
Watford	0·58			0·55		6·9				Fog on 2.
Westport	1·51			0·35		13·0				Fog on 2, 13.
Wooler	1·95			0·45		9·3				Fog on 27.
Westminster	1·16					14·0	13			Fog on 26, 27.
Wiarton	0·51									Fog on 1, 2, 13, 14, 20, 26, 27, 29.
Wesley										
QUEBEC—										
Timiskaming										
Kipawa										Fog on 3.
NEW BRUNSWICK—										
Point Escuminac	0·24	2	29	0·13	3	20·6	6	4·8	28	

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF JANUARY, 1911.

STATIONS.	Hours Ending																	
	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.
Victoria				·00	·09	·09	·15	·09	·12	·00	·00							
Nanaimo				T	·08	·14	·15	·13	·06	·06	·05							
Vancouver				·03	·05	·09	·11	·05	·07	·03	·03							
Agassiz					·01	·09	·09	·08	·05	·02								
Dunvegan				·02	·08	·18	·20	·20	·25	·20	·02							
Summerland			·01	·16	·22	·27	·31	·30	·31	·17								
Kamloops				·02	·08	·20	·34	·37	·37	·21								
Edmonton				·02	·24	·38	·42	·37	·32	·37	·10							
Lethbridge			·03	·28	·43	·47	·32	·18	·51	·35	·39	·01						
Lacombe				·09	·22	·24	·31	·34	·40	·31	·20	·02						
Medicine Hat																		
Fort Vermilion				·01	·30	·42	·52	·52	·42	·13								
Battleford				·05	·30	·38	·37	·30	·29	·14								
Indian Head			.....	·08	·32	·34	·36	·35	·39	·41	·09						.....	
Moosejaw			·03	·14	·31	·35	·30	·32	·31	·18	·35	·01						
Rosthern				·20	·47	·46	·46	·41	·18	·46	·25	T						
Brandon			·11	·34	·34	·38	·42	·47	·48	·27	·08							
Winnipeg				·08	·24	·41	·44	·38	·39	·39	·28	·03						
Haileybury			·01	·16	·37	·46	·45	·50	·47	·46	·41	·05						
Woodstock			·01	·08	·22	·27	·29	·31	·35	·25	·21	·04						
Lindsay				·08	·26	·31	·34	·34	·38	·33	·15	·01						
Barrie			·01	·15	·19	·26	·30	·28	·28	·26	·09							
Toronto	.....		.....	·12	·22	·32	·31	·37	·31	·30	·32	·04						
Kingston		·01	·11	·30	·37	·37	·37	·41	·41	·40	·23	·08						
Ottawa		.....	·05	·27	·33	·41	·45	·37	·43	·43	·37	·07						
Montreal		.....		·01	·17	·30	·31	·36	·35	·29	·09							
Quebec			·04	·23	·31	·34	·38	·38	·40	·43	·33	·03						
Sherbrooke			·01	·18	·30	·40	·42	·42	·37	·42	·25	·03						
Fredericton			·08	·31	·40	·47	·45	·45	·41	·41	·38	·09						
Charlottetown			·10	·27	·33	·33	·40	·42	·45	·39	·29	·07						

	Victoria.	Nanaimo.	Vancouver.	Agassiz.	Dunvegan.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.		
Registered duration in hours.	33	21	14	12	18	51	40	66	102	69		72	20	73	99	100	91	82	103	63	48	76	72	96	98	58	89	88	108	95		.
Percentage of possible duration	12	8	5	4	22	20	19	26	38	27		33	23	28	37	39	34	31	37	22	24	26	27	34	35	21	32	31	38	34		.
Difference from average	— 8			—11									—10	— 1			+ 9	+ 5		+ 1	2	+ 6	— 2	+ 7	+ 3	—10			0			.
Maximum percentage in one day	67	51	51	47	77	56	62	84	91	90		74	71	78	95	96	94	90	93	84	74	84	87	94	95	82	93	97	95	92		.
Date of maximum	20	9	28	29	27	17	24	1	16	11		14	1	27	20	1	17	28	16	5	4	5	26	17	22	12	22	31	25	6	..	..
No. of days completely clouded	16	21	23	25	12	14	14	15	6	5	.	12	5	10	4	1	12	15	9	16	19	12	16	11	9	13	13	8	9	13	..	..

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Aitkensville, IV; Threehills Creek, II; Waitefield, IV; Oliver, Melfort, IV; Estevan, III; Crescent Lake, III; Campsie, IV.

2. Aweme, II; Kenora, IV; Aitkensville, III; Kakabeka Falls, IV; Waitefield, IV; Crescent Lake, IV; Grenfell, II; Campsie, IV.

3. Bruce Mines, III; Aitkensville, IV; Threehills Creek, IV; Chicoutimi, Stanley, IV.

4. Loch Sloy, Kenora, III; Aitkensville, IV; Waitefield, IV; Haileybury, III; Minnedosa, III.

5. Kenora, IV; Sehreiber, IV; Haileybury, III.

6. Sion, III; Three Hills Creek, IV.

8. Glenbryan, II.

10. Aitkensville, IV; Waitefield, III; Melfort, IV.

14. Grenfell, IV.

16. Chicoutimi.

17. Sion, III.

18. Aitkensville, IV.

20. Aweme, III; Aitkensville, IV.

21. Aitkensville, IV; Oliver, Melfort, IV.

22. Aitkensville, IV; Kakabeka Falls, III; Pembina, Yarbo, III.

23. Aweme, IV; Aitkensville, IV; Sion, IV; Yarbo, IV; Glenbryan, I.

24. Cartwright, Deloraine, Georgetown, Aweme, II; Lucknow, III; Sehreiber, IV; Lake Talon, IV; Montague, Sion, IV; North Bruce, III; Gravenhurst, II; Kingston, III; Montreal, III; Chaplin, IV; Brownlee, Glenbryan, II.

25. Hillsdown, IV; Sion, IV; Threehills Creek, IV; Grand Manan, IV; Oliver.

26. Pembina, Sion, II; Threehills Creek, II; Waitefield, III; Meota, IV; Crescent Lake, IV.

27. Cartwright, Aweme, IV; Kakabeka Falls, III; Pakan, Pembina, Sion, III; Threehills Creek, IV; Meota, IV; Crescent Lake, IV; Chaplin, II.

28. Lake Talon, IV; Pakan, Pembina, Sion, II; Threehills Creek, III; Waitefield, II; Yarbo, IV.

29. Loch Sloy, Aitkensville, IV; Pembina, Sion, III; Waitefield, IV; Meota, II.

30. Kenora, IV; Bruce Mines, IV; Madoc, III; Aitkensville, IV; Pembina, Abitibi, Gravenhurst, III; Haileybury, II; Crescent Lake, IV; Chaplin, IV; Brownlee.

31. Aitkensville, IV; Chicoutimi.

Thunder recorded :

7. Vernon, Enderby.

21. Quebec.

FORECASTS FOR JANUARY, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1153. These were divided as follows :

District.	No. Issued.	Verified. No. Fully	No. Partly	No. Not	Per centage.
Alberta	77	57	17	3	85.1
Saskatchewan	89	69	17	3	85.6
Manitoba	78	58	11	6	83.3
Lake Superior	87	71	15	1	90.2
Lower Lake Region	104	84	16	4	88.4
Georgian Bay	104	85	19	0	90.9
Ottawa Valley.	96	68	21	7	81.8
Upper St. Lawrence	96	74	19	3	84.7
Lower St. Lawrence	92	77	14	1	89.7
Gulf.	90	83	13	1	94.4
Maritime Provinces West	121	98	13	10	86.4
Maritime Provinces East.	120	93	18	9	85.0
Total	1153	906	190	57	86.9

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
February 28, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. FEBRUARY, 1911. No. 2.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

In western and southern Ontario, Manitoba, the greater part of Saskatchewan, the northern portion of Alberta, and in the Yukon, the weather of February was warmer than usual. In the Maritime Provinces and British Columbia, however, there were very few mild days, and the average of the month was between 3° and 8° below normal.

Rain fell frequently in southwestern British Columbia, and snow on many days in the north and on the higher levels, yet the total precipitation of the month was much less than is usual for February in that province. The number of hours of bright sunshine exceeded the average of the preceding 20 years. Except in the northern districts the daily range of temperature was not great, while in the south 40° was seldom reached except on Vancouver Island and the extreme southwestern mainland. The greatest difference from normal temperature occurred in the central-southern districts, where the mean of the month was 7° or 8° below the 20-year average. In the far northern portion of the province, however, conditions were reversed and the average of the month was 4° or 5° warmer than usual, and this is true of the Yukon also, the mean temperature of Dawson exceeding the normal by 7°.

The usual number of mild days did not occur during February in southwestern Alberta, while in the more northern portion of the province there were few days of bitterly cold weather, such as frequently happen in February. Consequently the southern portion reported mean temperatures below normal by from 1° to 3°, while in the north the normal was exceeded by about the same amount. In the southwestern districts the total precipitation was more than average by a small amount, while in the more northern portions there was a deficiency to about the same extent. The coldest periods were the first two days and the 26th and 27th. From the 10th to the 12th and again on the 23rd and 24th the highest temperatures, ranging between 52° and 57°, occurred at Edmonton and the stations in approximately the same latitude, or even further north. Lunnford reporting 57° and Peace River Crossing 50°. It is worthy of note that these temperatures were higher than any registered in Quebec or the greater portion of the Maritime Provinces during the month.

Colder conditions than are usual for February obtained in southwestern Saskatchewan, but the mean temperature increased to the north and east, exceeding the normal by 1° to 4° in that portion of the province. Except in the vicinity of Indian Head the snowfall of the month was less than the normal by a small amount, occurring on from two to seven days. The warmest period was that between the 23rd and 26th, but generally the temperatures were not so high as they were during the corresponding mild interval in Alberta.

Much warmer weather than generally obtains in February was experienced in Manitoba, but while the excess over normal mean temperature was scarcely 3° in western Manitoba, in the eastern portion of the province it was between 7° and 8°. The first three days of the month were very cold, temperatures not rising to zero. From the 10th to 25th, however, the day temperatures were fairly high. On the 1st, 2nd, 5th, 6th, 8th, 13th and 17th snow fell, aggregating about 8 inches in most districts. Those places where the normal precipitation was exceeded lie in the western portion of the province.

The greater part of Ontario reported mean temperatures considerably above the normal. Th widest departures from normal occurred on the western shore of Lake Superior, in the Thunder Ba and Rainy River districts. In Algoma and southern Ontario, with the exception of the extreme south western counties of the Peninsula, this excess over average existed to a much less degree. In th eastern counties the temperature was average or a little less. Precipitation was in excess of th average amount in the Thunder Bay, Rainy River and Algoma districts, and in the Ottawa Valley, a well as locally in the central-southern counties. Temperatures of 45 to 55° were registered on th 17th and 25th.

Over Quebec and the Maritime Provinces the temperature of the month was lower than th February average, the deficiency ranging from 2° at Montreal to 7° in central Nova Scotia. It wa much below zero on many days, while 45° was not exceeded except at a very few stations. At Mon treal there was a small excess of precipitation, but elsewhere much less than the average quantity wa reported.

ATMOSPHERIC PRESSURE.

Anti-cyclonic formations were of frequent occurrence in February, and the mean atmospher pressure exceeded the average in all parts of Canada by about 0·05 of an inch. In Saskatchewan Manitoba and from Eastern Ontario to New Brunswick, inclusive, the departures from normal wer from 0·07 to 0·10 of an inch.

HIGH AREAS.

Eight areas of high pressure occurred during the month, six first appearing in the vicinity of th Yukon Territory and two in the Pacific States. Three of the systems carried their centres far to th northward of the Great Lakes, one passed across the Great Lakes and four passed far to the southwar of the Great Lakes. The systems conformed to the usual important winter type of anticyclones, the accompanying cold waves being generally severe and widely experienced.

LOW AREAS.

Eleven areas of low pressure were charted; six first appeared on the far northern British Co umbian or Alaskan coasts, two on the West Pacific States Coast, one in the South Pacific States, on in Southern Texas, and one off the South Atlantic States coast. Eight of the areas passed over th Great Lakes and the remaining three to the southward of them, thence either over or close to th Maritime Provinces and Newfoundland. The areas were often of much energy, causing numerou high winds and gales in their transit, some of the latter being heavier on our Pacific and Atlant coasts and over Newfoundland than elsewhere in the Dominion.

WINDS, FEBRUARY, 1911.

PROVINCE AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	GENERAL DIRECTION.
BRITISH COLUMBIA.							
Victoria	5495	701					
Triangle Island							
Prince Rupert	3977	235	22	0	3	6	Variable.
Kamloops	2477	219	18	0	1	3	
ALBERTA.							
Sulphur Mt., Banff	17510	1024	50	6	[illegible]	7	Southwest and Wes
Calgary	2242	218	47	6	[illegible]	6	Variable.
Edmonton	2745	222	19	[illegible]	1	5	
SASKATCHEWAN.							
Battleford	4819	914	57	1	4	9	South and West.
Swift Current	6525	393	32	2	11	7	
Qu'Appelle	1874	390	22	0	[illegible]	9	
MANITOBA.							
Winnipeg	24 days 6141	472	30	1	9	6	North and West.
The Pas	4708	4[illegible]	27	0	[illegible]	8	
ONTARIO.							
Port Arthur	8552	189	33	1	9	11	Northwest to North-east.
Parry Sound	6321	372	23	0	[illegible]	14	
Woodstock	3179	544	30	1	13	8	
Toronto	11407	565	49	7	7	5	
Kingston	3783	293	11	0	0	7	
QUEBEC.							
Montreal	10188	674	42	3	13	7	Variable.
Quebec	9184	707	47	5	11	1	N. E., W. S.W.
Father Point			...	.....			
MARITIME PROVINCES.							
Fredericton	6826	514	....			.....	N.W., S.W.
St. John	9847	713	39	5	6	11	N.W., S.W.
Pt. Le Preaux	11670	791	50	7	5	7	N., W.
Halifax	8935	455	38	4	12	7	N.E., N.W.
Flat Pt	10955	626	39	6	8	7	N., W
Charlottetown	5780	374	37	3	2	12	N., W.

TEMPERATURE.

In central-southern British Columbia and central Nova Scotia, the mean temperature was 7° below normal. From both coasts the temperature increased inland, rising above normal in Saskatchewan, Manitoba and Ontario and reaching the maximum excess over normal of 9° at Port Arthur. There was also a northward increase from British Columbia to the Yukon, where there was an excess of 7°.

The highest and lowest temperatures recorded in each Province during the month of February, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	60° at Alberni on the 28th.	—38° at Chilcotin on the 2nd.
Alberta,	62° at Macleod on the 13th.	—55° at Athabasca Landing on the 2nd.
Saskatchewan,	55° at Onion Lake on the 26th.	—42° at Lloydminster on the 2nd, Onion Lake on 2nd and 3rd, File Hills on 3rd, The Pas on the 4th.
Manitoba,	39° at Almasippi and Morden on the 24th, Stony Mountain on the 25th.	—41° at Moose Horn Bay on the5th.
Ontario,	58° at Lakefield on the 26th.	—42° at White River and Kakabeka Falls on the 5th.
Quebec,	46° at Ste. Anne de Bellevue on the 26th.	—44° at Lake Edward on the 1st.
New Brunswick,	57° at Sussex on the 24th.	—28° at Dalhousie on the 6th.
Nova Scotia,	48° at Antigonish on the 28th.	—18° at Truro on the 13th.
P. E. Island,	40° at Charlottetown on the 1st and Hamilton on the 14th.	—11° at Charlottetown on the 13th.

PRECIPITATION.

Precipitation was in excess of normal in southwestern Alberta, locally in eastern Saskatchewan and western Manitoba, in the Thunder Bay, Rainy River and Algoma districts, the Ottawa Valley and locally in the central-southern counties of Ontario and the southwestern portion of Quebec.

DEPTH OF SNOW.

At the close of the month the ground was snow covered throughout Canada except on the coast and lower levels of British Columbia, and in the Peninsula of Ontario. In northern Ontario and Quebec there was about five feet of snow. In the Maritime Provinces a depth of two inches at Halifax increased to about three feet in northern New Brunswick. A large amount of snow lay on the higher levels of British Columbia, while in the Western Provinces a depth of from three to nine inches in Alberta increased to ten and twenty inches in Manitoba.

THICKNESS OF ICE.

The thickness of ice as reported at the end of the month was as follows:—

Western Provinces.—Battleford, 25 inches, The Pas, 21·5; Medicine Hat, 30; Swift Current, 37; Moose Jaw, 30; Qu'Appelle, 18; Minnedosa, 30.

Ontario.—Port Arthur, 22 inches; Southampton, 10; Port Stanley, 24; Kingston, 25·5; Toronto, 18; Barrie, 22; Ottawa, 30.

Maritime Provinces.—Chatham, 18 inches; Fredericton, 27; Yarmouth, 16; Sydney, 30; Charlottetown, 25; Point Le Preaux, 18.

BRIGHT SUNSHINE.

The duration of bright sunshine was less than is normal for February in eastern Manitoba and Ontario, but elsewhere in the Dominion was in excess of average.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. FEBRUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE.				TEMPERATURE.											DIRECTION OF WIND FROM									VELOCITY OF WIND.			PRECIPITATION.					
				Mean reduced.	Highest.	Lowest.	Range.	Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Tot. number of observations.	Mean miles per hour.	Highest days velocity.	Date and direction from	Amount.	Difference from average.	Heaviest fall in 24 hours.	Days with .01 or more.	No. of *	No. of *	No. of *
	°	°	ft.	in.	in.	in.	in.	°	°		°		°		°	%																				
BRITISH COLUMBIA																																			
Alberni (Beaver Creek)	49	1	124	49	3	9																													
Agassiz	49	14	121	51		52																													
Atlin	59	35	133	38	2210	30	05	31	06	29	15	1	93																						
Barkerville	53	2	121	35	4180	30	03	30	07	30	21	1	06																						
Bella Coola	52	10	126	44	150																														
Babine Lake	55	38	126	26																															
Chilcotin (Big Creek)	51	40	123	0	3100																														
Cranbrook	49	30	115	50																															
Clayoquot	49	11	125	47	40																														
Cowichan (Zouhalem)	48	25	123	42	150																														
Chilliwack	49	10	121	57	21																														
Enderby	50	32	119	7	1180																														
Fort St. James (Stuart's Lake)	54	28	124	12	2280																														
Fairview	49	11	119	36																															
Fruitvale	49	9	117	31																															
Fort St. John	56	12	120	50	1190																														
Glacier	51	14	117	29	4072																														
Golden	51	16	116	57	2650																														
Holberg	50	30	128	18																															
Hedley	49	35	120	10																															
Hedley (Nickel Plate)																																			
Hope	49	23	121	26																															
Ikeda Bay	52	17	131	7																															
Kamloops	50	41	120	29	1245	30	11	30	71	29	21	1	20																						
Ladner	49	5	123	4																															
Massett, Q.C.I.	53	58	132	9	30																														
a Nanaimo	49	10	123	57	125	29	91	30	33	28	57	1	03																						
Nicola Lake	50	9	120	30	2125																														
North Nicomen	49	12	122	2	50																														
New Westminster	49	13	122	54	350																														
Nelson	49	29	117	21	1760																														
Needles																																			
Okanagan Mission (Kelowna)	49	52	119	29	1200																														
Princeton	49	29	120	30	1650																														
Penticton	49	29	119	37																															
Pemberton Hatchery	50	20	122	53																															
Prince Rupert	54	18	130	18	170	29	97	30	78	29	06	1	53																						
Quesnelle	52	59	122	30	1700																														
Revelstoke	51	0	118	6	1476																														
Rossland	49	5	117	48	3900																														
Ruskin (Stave Falls)	49	16	122	23	125																														
Salmon Arm	50	42	119	35	1215																														
Steveston (Garry Point)	49	21	123	17																															
Swanson Bay	50	37	126	53																															
Salt Spring Island	48	50	123	29																															
Summerland	49	57	119	40	1100																														
Sooke	48	11	123	44	25																														
Stewart	56	1	130	1	215																														
Tobacco Plains (Elko)	49	1	115	5	2684																														
Triangle Island	50	52	129	5	680	30	03	30	05	28	72	1	93																						
a Tranquille	50	41	120	29																															
Vernon (Coldstream Ranch)	50	14	119	15	1575																														
Victoria	48	24	123	19	85	30	06	30	02	29	95	1	57																						
Vancouver	49	17	123	5	136	30	09	30	61	29	11	1	50																						
Winter Harbour	50	32	128	3																															
Wilmer	50	31	116	14																															

YUKON :—																		
Carcross	60	11	134	34	2171					5·6	—	4	44·0	19	−41·0		1	17·9
Dawson	64	4	139	20	1200	30·11	31·02	29·33	1·69	6·0	+8·4	10	45·0	19	−51·0		1	19·3
White Horse	60	45	135	0	2075													
ALBERTA—																		
Athabasca Landing	54	43	113	17	1650					4·8		8	48·0	23	−55·0		2	33·5
Alix	52	24	113	10						7·5		6	45·0	23	41·0		2	35·5
Banff	51	10	115	31	4542	30·15	30·52	29·34	1·18	11·1	−2·7	14	36·2	21	29·8		2	23·9
Blairmore	49	4	114	30	4225					13·1	—	1	42·8	11	21·4		21	26·1
Calgary	51	2	114	2	3389	30·10	30·50	29·32	1·18	11·6	0·8	25	44·0	23	22·0		2	21·1
Cardston	49	12	113	18						11·3	—	5	45·0	9	22·0		1	22·6
Didsbury	51	40	114	8	3300					11·5	—	9	56·0	23	32·0		2	22·9
a Dunvegan	55	56	118	35	1305													
Daysland	55	52	112	17														
Edmonton	53	33	113	30	2158	30·10	30·84	29·37	1·47	12·1	+1·3	25	52·0	23	12·0		2	28·7
Eckville	52	23	114	22						3·8		4	37·0	21	41·0	2	3	33·2
Endiang	52	0	112	0	2795					5·1		1	38·0	21	35·0		1	20·0
Fort Vermilion	58	27	116	3						2·8		6	41·0	21	57·5		2	30·4
Gleichen	50	59	112	51	2952					9·6	+0·1	12	35·0	12	28·0		2	21·1
Gilt Edge	52	59	110	43						6·8		2	36·7	21	40·6		2	23·0
Hillsdown	52	14	113	29	2806					10·1	—	8	42·0	23	−36·0		2	25·3
High River	50	35	113	53	3391					10·7	—	7	47·0	21	−27·0		2	22·8
Harmattan	51	45	114	23	3500					12·0		4	52·0	24	35·0		2	31·4
Halkirk, (Emsburg)										4·5		3	32·0	13	−32·0		2	21·1
Lethbridge	49	42	112	51	2961					16·8	1·9	10	47·2	21	−20·2		27	25·0
Lethbridge (Exp. Farm)	49	43	112	51						15·8		4	49·0	23	−20·5		27	24·1
Lacombe	52	58	113	44	2783					9·8		7	43·6	10	39·2		2	30·8
Lawrence	50	46	113	26						13·9	—	5	42·0	11-23	23·0		2	29·7
Lunnford	54	33	114	19						6·1	—	2	57·0	23	−54·5		2	39·1
Loveland	52	30	114	59								1			31·0		2	
Medicine Hat	50	1	110	37	2144													
Macleod	49	44	113	24	3128					21·0	+2·1	16	62·0	13	21·0		20	31·6
Peace River Crossing	56	15	117	15						0·7		4	49·0	23	54·0		2	32·9
Pembina	54	12	114	0						6·3		3	49·6	21	−53·0		2	38·6
Pakan (Victoria)	54	0	112	31						3·8		7	42·7	21	−55·0		2	30·9
Pincher Creek	49	0	114	4	3750													
Red Deer	52	16	113	49														
Spirit River	55	40	118	47						8·4		2	48·0	23	45·0		2	23·5
Threehills Creek	51	30	113	41						5·0		9	35·0	23	−34·0		2	22·8
Wetaskiwin	52	58	113	23	2480					8·4		9	40·0	21	40·0		2	25·8
Waitefield	53	29	111	38	2000					2·9		6	39·0	23	47·2		2	23·5
SASKATCHEWAN—																		
Battleford	52	41	108	20	1620	30·20	30·99	29·50	1·49	1·4	+0·8	20	39·0	24	34·0		4	22·6
Broadview	50	23	102	33	1960													
Brownlee	50	45	106	0						2·8		1	31·8	21	21·9		2	18·1
Chaplin	50	26	106	39	2202					2·0	+1·0	25	33·0	21	28·0		2	25·0
Cannington Manor	49	43	102	2	2064					0·5	−2·4	13	28·0	21	26·0		3	17·8
Crescent Lake	50	59	102	25	1658					1·2		7	30·1	25	34·9		3	24·8
Duck Lake	52	54	106	20						—		5	30·0	12	35·0	1	5	
Estevan	49	12	103	4	1858					0·5		7	28·0	25	26·0		2	21·5
East End	49	31	108	49														
Foxleigh	50	37	104	29						5·4		3	31·0	11	27·0		3	21·4
File Hills	51	4	103	31						0·9		1	32·0	21	42·0		3	30·7
Grenfell (Brownhill)	50	23	102	53	1957					3·4	+0·4	11	28·0	25	27·0		2	20·5
Govan	51	17	104	54						−1·2	—	2	31·5	25	−29·0		3	20·4
Glenbryan	49	46	107	6	2500					3·2	—	1	33·0	13	30·0		3	27·4
Humboldt	52	12	105	9						—		3	45·0	18	−24·0		2	
Hubbard (Drumaguet)	51	5	103	24						0·3		2	31·0	25	31·0		3	22·7
Indian Head	50	28	103	40	1924					1·0	0·0	21	28·0	11-25	31·0		4	25·3
Kamsack	51	30	101	52														
Lloydminster	53	18	110	0						2·0		4	39·0	24	42·0		2	26·9
Lanigan	51	54	105	2														
Moose Jaw	50	21	105	35	1759					3·0	0·9	16	33·0	24	28·0		3	23·0
Moosomin	50	0	101	37	1884					3·3	—	9	29·0	22-21	29·0		3	25·0
Muenster (St. Pete's Monaster.)	52	0	105	0	1870					−0·6		6	33·0	21	38·0		4	19·1
Melfort	52	47	104	30						1·8		2	37·0	24	−34·0		4	21·9
Maple Creek	49	55	109	28														
Orion Lake	53	52	109	59						0·2		4	55·0	26	42·0	2	3	28·1
Oliver	51	46	108	10						2·1		1	32·0	21	35·0		2	25·9
Pense (Gatesgarth)	50	20	105	0	1879					0·2	3·2	13	30·0	24	33·0		3	21·5
Prince Albert	53	10	106	0	1432	30·1[illegible]	30·93	29·48	1·45	2·6	+3·0	26	38·[illegible]	28	−32·0		4	28·6
Prince (Meota)	51	0	108	20	1700					1·9		5	37·0	21	11·0		4	29·2
Qu'Appelle	50	30	103	47	2115	30·18	30·96	29·62	1·34	5·0	+3·7	26	32·5	11	39·0		4	21·9
Regina	50	27	104	37	1885					1·7	+0·3	25	28·0	24	26·0		4	16·8
Rathmullen	51	20	108	57						2·8		1	29·0	25	36·0		3	22·7

YUKON :—																								
Carcross																	1·73	—	0·38	7	21	0	0	0
Dawson		6	6	0	0	0	0	22	0	0	1	33	56				0·91	+·25	0·30	9	19	4	0	5
White Horse																								
ALBERTA—																								
Athabasca Landing				2	1	2	4	9	4	4	2	0	28				0·48	—	0·20	3	25	0	0	0
Alix				4	0	0	2	5	5	1	9	2	28				0·47	—	0·15	5	23	2	0	0
Banff	69	5	4	0	6	0	3	2	17	6	0	21	56				0·65	0·16	0·17	—		2	0	0
Blairmore																	0·15	—	0·15	1	27	0	0	0
Calgary		3	0	2	3	1	7	0	2	0	20	21	56				0·56	+0·01	0·30	3	25	0	0	0
Cardston																	1·10	—	0·40	4	24	0	0	0
Didsbury				0	1	2	3	1	7	6	8	0	28				0·40		0·20	3	25	0	0	0
a Dunvegan																								
Daysland																								
Edmonton		4	3	3	6	3	3	12	5	7	9	8	56				0·31	0·13	0·13	5	23	4	0	0
Eckville																	0·20		0·10	2	26	0	0	0
Endiang																		—		—		0	0	0
Fort Vermilion																	0·35		0·20	4	24	11	0	0
Gleichen																	0·40		0·20	2	26	0	0	0
Gilt Edge				0	3	1	4	6	9	1	1	0	28				0·30		0·10	4	24	3	0	2
Hillsdown				0	4	0	6	1	3	0	24	15	56				0·50		0·20	5	23	7	0	0
High River																	1·00	—	0·30	9	19	0	0	0
Harmattan																	0·65		0·20	6	22	0	0	0
Halkirk, (Emsburg)				3	1	0	9	6	25	0	12	0	56				0·43	—	0·20	5	23	3	0	3
Lethbridge																	0·51	—	0·30	6	22	0	0	0
Lethbridge (Exp. Farm)																	0·52	—	0·27	6	22	0	0	0
Lacombe																	0·18		0·15	7	21	0	0	0
Lawrence																	0·70		0·30	5	23	0	0	1
Lunnford																	0·27		0·10	4	24	2	0	0
Loveland				2	0	1	5	2	8	1	9	0	28									0	0	0
Medicine Hat																								
Macleod																	1·15	+0·83	0·65	4	21	0	0	0
Peace River Crossing																	0·40		0·20	2	26	5	0	0
Pembina																	0·55		0·10	8	20	13	0	0
Pakan (Victoria)				4	3	6	1	8	10	5	3	16	56				0·52		0·25	5	23	0	0	1
Pincher Creek																								
Red Deer																								
Spirit River																	0·12		0·25	3	25	5	0	0
Threehills Creek																	0·32	—	0·10	5	23	11	0	0
Wetaskiwin																	0·26		0·14	2	26	0	0	0
Waitefield				2	3	8	26	6	12	11	8	12	84				0·29		0·09	5	23	13	0	3
SASKATCHEWAN—																								
Battleford		5	5	1	0	0	18	0	5	9	12	37	84				0·05	0·38	0·02	4	24	2	0	0
Broadview																								
Brownlee				0	0	1	4	8	4	4	5	2	28				0·15		0·10	2	26	4	0	1
Chaplin				0	2	0	7	0	1	4	11	0	28				0·11		1·03	6	22	6	0	0
Cannington Manor																	0·40		0·20	3	25	0	0	0
Crescent Lake				2	0	0	2	7	3	9	5	0	28				0·83		0·15	5	23	8	0	1
Duck Lake																						0	0	0
Estevan				0	1	5	1	2	8	6	4	1	28				0·40		0·20	2	26	1	0	1
East End																								
Foxleigh				0	0	0	11	1	1	0	9	6	28											
File Hills																	1·20		0·60	4	21	2	0	0
Grenfell (Brownhill)				0	2	1	6	10	18	0	15	0	52				0·30	0·02	0·30	1	27	2	0	1
Govan																	0·29		0·20	4	21	0	0	0
Glenbryan				1	9	0	2	4	18	12	10	0	56				0·67		0·35	4	21	4	0	0
Humboldt																						0	0	0
Hubbard (Drumaguet)																	0·40	—	0·40	1	27	0	0	0
Indian Head				2	2	3	2	26	10	7	26	6	84	11	VI	3 NW	0·95	+0·53	0·45	4	21	0	0	0
Kamsack																								
Lloydminster																						2	0	0
Lanigan																								
Moose Jaw		4	8	3	2	1	8	0	4	23	9	31	84				0·15		0·10	2	26	1	0	0
Moosomin				1	0	2	5	3	2	8	7	0	28									0	0	0
Muenster (St. Pete's Monaster.)				0	7	0	0	0	7	1	13	0	28				0·30		0·30	1	27	5	0	1
Melfort																	0·20		0·10	3	25	5	0	0
Maple Creek																								
Orion Lake				3	4	8	0	1	3	1	5	0	25					—				0	0	0
Oliver																	0·30		0·10	3	25	5	0	0
Pense (Gatesgarth)				0	3	3	1	0	6	6	8	1	28									0	0	0
Prince Albert				1	0	8	2	4	9	1	3	19	53				0·50	0·23	0·20	3	25	1	0	0
Prince (Meota)																	0·10		0·10	1	27	8	0	2
Qu'Appelle	82	6	4														0·50	0·43	0·26	3	25	4	0	0
Regina																	0·21	0·08	0·10	5	23	0	0	0
Rathmullen																	0·5[illegible]		0·20	7	21	0	0	—

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, FEBRUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in 24 hours.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SASKATCHEWAN—*Con.*	° ′	° ′		in.	in.	in.	in.																																	
Rosthern	52 40	106 20	1657					4.0		1	35.5	25	29.8	3	22.4																		0.80		0.40			[illegible]	[illegible]	[illegible]
Swift Current	50 20	107 45	2439	30.22	31.00	29.48	1.52	8.8	0.2	25	31.0	10, 21	22.0	2, 3	18.3		85	3	5	2	1	0	1	7	19	36	6	9	81				[illegible]	[illegible]	0.11	6	2	[illegible]	[illegible]	[illegible]
Saskatoon	52 15	106 30	1571					2.2	1.2	11	31.5	25	33.1	1	21.0																		0.40	0.02	0.20	3	2	0	0	0
Strassburg	51 5	104 56						0.6		1	31.0	25	30.0	3	20.6																							0	0	0
Scott (Hearts Hill)	51 50	109 30																																						
Stanley Mission										1	38.0	24								3	1	11	3	0	8	6	8	13	53				0.75		0.10	4	21	3	0	0
The Pas	53 49	101 15	860	30.23	30.97	29.55	1.42	0.6		1	39.0	24	42.0	4	21.1																		0.20		0.10	3	25	2	0	0
Waseca	53 6	109 29						2.7		1	35.0	21	37.0	2	23.2					0	1	5	2	0	10	3	0	1	28				0.35		0.20	2	26	6	0	0
Yorkton	51 11	102 29																																						
Yarbo (Fairfield)	50 39	102 4						3.7		4	31.0	25	38.0	3	25.8					2	2	1	5	2	0	1	14	1	28				1.10		0.30	7	21	5	0	4
MANITOBA																																								
Almasippi	49 14	99 20						1.5		9	39.0	21	32.0	5	23.4																		0.40		0.10	4	28	3	0	0
*a*Awème (St. Alban's)	49 42	99 34	1180	28.88	29.45	28.42	1.03	2.4	1.8	27	32.5	14	28.5	3	25.2																		0.72	0.06	0.24	7	21	14	0	0
Brandon	49 51	99 57	1176					0.3	+ 4.9	23	33.1	25	29.7	5	25.2			4	2	0	14	1	4	0	10	26	26	3	84	4	11	28 W	0.70	0.16	0.20	4	21	2	0	0
Berens River	52 18	97 23	710																																					
Carberry	49 52	99 20	1258							7										7	2	0	0	2	2	23	1	19	56				1.50		0.70	3	25	2	0	0
Carman	49 31	98 0	872																																					
Cypress River	49 33	99 3	1232																																					
Dauphin	51 8	100 2	957					4.4		6	35.5	25	30.8	5	22.5																							0	0	0
Hillview	49 55	100 33	1400					1.0	+ 0.4	25	31.0	25	29.0	3	21.1			2	0	1	2	5	6	0	26	16	34	0	84				0.70	0.17	0.10	3	25	0	0	0
Minnedosa	50 15	99 50	1690	30.20	30.82	29.60	1.22	3.4	+ 2.8	27	31.0	25	31.5	5	21.6			4	2	2	1	3	6	0	0	7	12	31	62				0.91	0.37	0.60	5	23	6	0	1
Morden	49 11	98 6	978					7.4		7	39.0	24	28.5	5	22.5																		0.97		0.30	6	22	0	0	0
Moose Horn Bay (Aitkensville)	51 15	99 23						2.1		1	36.5	25	41.1	5	22.3					12	1	2	6	8	1	9	9	1	52				0.90		0.55	9	19	12	0	2
Ninga	49 11	99 51	1649					7.7		1	37.2	11	21.8	2	19.4																		1.00		0.38	4	21	1	0	0
Oakbank	49 57	96 42	800					5.5	+ 7.6	11	35.3	24	31.0	5	18.1					4	0	0	1	8	5	7	3	0	28				1.70	0.76	0.40	7	21	0	0	0
Pipestone	49 31	100 58	1400																																					
Portage la Prairie	49 57	98 17	830					3.4	+ 2.4	22	31.5	25	32.0	2	20.7																							0	0	0
Portage la Prairie (2)	49 56	98 17																																						
Pierson	49 11	101 5	1531																																					
Stony Mountain	50 10	97 14	803					3.1	+ 4.5	30	39.0	25	35.0	5	26.3					5	2	5	3	3	9	15	8	0	50				0.90	0.47	0.20	2	26	0	0	2
Swan River	52 6	101 15	1112					4.6		3	35.0	25	−29.0	2	23.6																							0	0	0
Treherne	49 36	98 40	1212					4.3	2.3	16	32.0	21	29.0	3	19.2																		0.60	0.19	0.20	8	26	7	0	0
Virden	49 51	100 55	1444																																					
Winnipeg	49 55	97 7	760	30.22	30.82	29.57	1.25	6.5	7.5	37	35.5	21	31.6	5	20.6			5	3	2	2	13	1	2	0	20	16	6	56				0.71	0.02	0.22	7	21	1	0	0
ONTARIO																																								
Alton	43 51	80 5	1250					17.2	1.5	24	43.0	18	8.8	6	19.9			5	6	5	2	13	6	15	12	27	4	0	84	11	N		1.60	0.02	[illegible]	10	18	0	0	1
Aurora	43 57	79 24	886					19.5		3	44.3	25	1.7	6	18.8																		1.14	0.50	0.70	11	17	0	0	0
Agincourt	43 47	79 16	590					21.7	+ 5.8	16	47.4	17	1.1	5	12.6					6	9	16	0	1	5	26	21	0	84				1.66	1.57	0.90	13	15	0	0	2
Barrie	44 23	79 41	889																																					
Beatrice	45 8	79 20	800					17.2	+ 3.9	35	44.0	25	13.0	3	19.4			7	12	1	0	6	18	6	3	2	28	20	84	11	N		1.13	1.55	0.25	8	20	0	0	3
Bruce Mines	46 18	83 55	595					18.3	+ 7.4	13	39.0	25	20.0	5	17.1																		1.21	0.91	0.64	4	21	3	0	0
Birnam	43 2	81 55	600					25.7	+ 6.2	29	48.2	25	10.2	6	10.8					2	6	9	1	10	3	7	15	0	56				1.27	1.81	0.40	8	2	0	1	3
Brantford	43 10	80 21	750					21.9	+ 4.9	21	47.0	17	5.0	20	14.3																		1.70	0.12	0.80	5	23	0	0	4
Bloomfield	43 59	77 21	260					20.0	+ 4.9	13	39.0	27	1.0	16, 28	16.1																							0	0	0
Bancroft	45 4	77 50						12.5	0.1	20	44.0	25	21.0	2	20.8																							0	0	0
Copper Cliff	46 30	80 59						12.5		4	40.5	25	21.0	5	19.8																		0.80		0.40	4	21	0	0	0
Clinton	43 32	81 37						23.0		8	42.0	18, 26	6.0	3, 23	12.3					1	4	9	5	8	6	11	12	0	56				2.65		0.48	13	15	1	0	1
Coldwater	44 38	79 40	600					15.6	+ 0.3	24	45.0	25	14.0	3	24.7																		1.07	1.77	0.37	6	22	0	0	0
Cottam	42 7	82 45	666					27.6	1.2	23	51.0	16, 25	4.0	10	18.2					23	1	4	10	5	5	4	4	0	56				2.91	0.89	1.00	7	21	0	0	0
Chatham	42 23	82 12	595					28.8	6.3	25	57.0	17	9.0	11	15.1																		1.10	1.12	0.50	3	25	0	0	0
Cochrane	49 2	81 0	930	30.18	30.73	29.59	1.14	4.8	—	1	47.0	25	36.0	1, 6	25.9					0	3	4	4	0	4	1	10	28	54				0.80		0.30	2	26	0	0	0
Collingwood	44 31	80 2								17			1.0	5, 6																			1.50		0.40	7	21	0	0	0
East Toronto	43 35	79 18						23.6		5	45.0	25	0.0	5, 6	11.5																		1.51		0.80	10	18	0	0	0
Elora	43 41	80 24	1274					20.9	+ 3.1	14	42.0	25	1.0	21	13.4																		2.86	0.39	0.60	17	11	0	0	0
Gravenhurst	44 51	79 20						16.2	+ 3.1	40	43.0	25	−17.0	3	21.8					3	3	17	17	5	4	8	11	13	81	11	N		1.49	0.81	0.40	9	19	2	0	0
Guelph	43 33	80 16	1050					22.6	+ 5.6	23	44.0	17	3.0	3, 21	13.1																		1.80		0.40	9	19	0	0	0
*a*Grimsby	43 13	79 36	282	29.69	30.12	29.10	1.02	26.1	—	2	47.0	26	3.0	21	14.1																		1.71		1.00	13	15	0	0	0

Station																	
Ontario—*Concluded.*																	
Haileybury	47	29	79	39	687	30·16	30·71	29·58	1·13	9·7	+0·9	16	46·2	25	−18·4	11	20·8
Hamilton	43	16	79	51	303					25·8	+1·9	36	47·0	17	3·0	21	10·5
Haliburton	45	1	78	28	1050					14·6	+2·0	23	43·0	25	−19·0	3	21·3
Huntsville	45	19	79	8						16·3		5	45·0	25	−18·0	5	18·6
Kenora	49	48	91	32	1102												
Kakabeka Falls	48	29	89	26	912					12·0	—	3	47·0	25	−42·0	5	21·1
Kingston	44	13	76	29	285	30·14	30·67	29·55	1·12	16·9	−0·6	36	40·0	25	−7·5	6	16·8
Kinmount	44	45	78	38	920					12·4	+1·6	12	41·0	25	−21·0	2	23·0
Lucknow	43	56	81	30	908					21·4	+2·2	25	41·9	17	−2·0	21	13·7
Lake Talon	46	15	78	48						14·0	+1·9	16	45·5	25	−25·0	6	18·5
London	42	59	81	13	808	30·06	30·49	29·59	0·90	25·9			50·5	25	5·0	9	13·6
Lakeside Home	43	10	79	24						25·2	—	6	42·0	25	5·0	5, 6	13·0
Lorno Park	43	32	79	37						25·2	—	3	50·0	25	4·0	6	15·5
Lindsay	44	20	78	45	872					18·6			41·1	25	−6·0	6	16·1
Lakefield	44	25	78	15	850					22·3	+8·9	21	58·0	26	−3·0	3	20·1
Meaford	44	37	80	37	600												
*Midland	44	44	79	53	750					21·4		3	50·0	25	7·0	5	
Madoc	44	30	77	29	575					15·4		7	43·0	25	11·0	3, 6	15·2
Montague	44	56	75	57						13·0	—	1	41·5	26	−21·0	6	19·8
Montreal River										8·1	—	1	41·0	25	−28·0	5, 6	27.6
*North Bruce	44	23	81	25						23·8	+7·7	23	43·0	17	3·0	6	
North Gower	45	8	75	43						11·7	—	9	50·0	26-27	−20·0	5	20·1
Owen Sound	44	31	80	55	597					22·1	+3·1	31	44·0	18	−2·0	5	12·4
Orillia	44	34	79	24	775					18·3	+3·7	19	43·0	25	−6·0	1, 5	17·4
Ottawa	45	26	75	42	294	30·13	30·71	29·62	1·09	12·1	−1·1	28	39·0	26	−20·0	6	18·1
*Ottonabee	44	20	78	18	674					18·5	+1·3	15	40·0	26	2·0	1, 6	
Port Arthur	48	27	89	12	644	30·13	30·66	29·54	1·12	16·4	+9·0	30	44·0	24	24·0	5	19·8
Port Stanley	42	40	81	13	592	30·11	30·56	29·60	0·96	26·9	+5·5	36	47·2	17	9·0	23	11·9
Port Dover	42	47	80	13	635					23·4	+1·2	36	47·5	25	3·5	21	10·9
Port Burwell	42	39	80	55	592					26·4	—	7	42·5	17	7·0	21	9·9
Parry Sound	45	19	80	0	635	30·11	30·56	29·56	1·00	18·3	+4·4	35	40·0	25	−14·0	5	18·0
Point Clark	44	5	84	44	595												
Pelee Island	41	50	82	35	585												
Paris	43	12	80	25	840					21·5	+1·6	22	45·0	17, 25	5·0	21	13·4
Peterboro	44	17	78	19	722					18·2	+1·6	42	44·0	18	−9·0	3, 5	17·2
Ronville	45	15	78	57	1038					13·3	—	4	43·0	26	−17·0	2	18·2
Renfrew	45	26	76	39	416					11·6	−0·2	22	46·0	26	25·0	3	19·5
Stonecliffe (Rockliffe)	46	9	78	6	557	30·07	30·60	29·34	1·26	9·6	+1·0	33	42·0	26	−28·0	6	25·1
Southampton	44	30	81	21	656	30·10	30·56	29·57	0·99	24·5	+3·3	34	43·1	17	0·0	6	15·0
*Sarnia	42	59	82	24	586					27·3	+7·2	17	0·0	25	7·0	11	
Stratford	43	23	81	0	1191					21·7	+2·9	45	42·0	26	0·0	21	19·0
Stony Creek	43	13	79	45	292					26·9	+3·0	26	46·0	17	1·0	21	11·7
Schreiber	48	50	87	15						11·4	—	9	42·8	16	−28·2	5	23·3
Shelburne	44	5	80	47						17·7	—	2	40·5	17, 18	−4·5	6	11·5
Toronto	43	40	79	24	350	30·11	30·56	29·48	1·08	25·5	+4·4	71	47·7	25	4·7	6	13·5
Uxbridge	44	5	79	8	886					19·2	—	7	43·0	17	−8·0	6	13·1
Uplands	45	48	79	25						14·2	+2·2	24	46·0	25	−18·4	3	23·9
Ursa	44	54	78	18						15·6		5	32·0	17	−11·0	28	12·2
White River	48	35	85	16	1252	30·09	30·59	29·47	1·12	7·9	+6·7	22	42·0	25	12·0	5	25·1
Woodstock	43	8	80	47	980	30·09	30·61	29·51	1·10	25·3	+2·9	37	46·0	26	6·0	21	13·6
Welland	42	59	79	17	577					25·6	+5·9	24	45·0	17	2·0	6	13·2
Windsor	42	20	83	1	625					29·2	−6·3	35	50·0	17-26	10·0	11	11·9
Wallaceburg	42	35	82	24						26·9	—	5	47·0	26	10·0	21	12·1
Quebec—																	
Abitibi	48	13	79	22						2·7	+0·2	45	41·0	25	37·0	6	25·6
*Anticosti, E. Point	49	6	61	42	30												
*Anticosti, W. Point	49	52	64	32	30												
Brome	45	10	72	36	678					9·8	−3·6	31	43·0	26	−29·0	6	20·7
*Bicquet	48	25	68	53													
Clarke City	50	10	66	25						4·4	—	6	37·0	16	31·0	2	23·6
*Cape Chatte	49	6	66	45						8·9	−4·4	29	28·0	28	−10·0	6	
*Cape Magdalen	49	16	65	20	93					8·3	−1·6	26	32·0	26	−12·0	3	
Chicoutimi	48	25	71	5	150							32					
Father Point	48	31	68	19	420	30·22	30·60	29·43	1·17	5·4	−5·7	33	32·0	27, 28	21·5	3	19·6
Lake Edward	47	39	72	15	333					−2·0	—	2	35·1	27	43·7	1	27·5
Montreal	45	30	73	35	187	30·12	30·71	29·45	1·26	12·4	2·2	36	43·3	26	8·1	3	14·9
Quebec	46	48	71	13	296	30·09	30·68	29·14	1·24	8·2	−3·5	36	39·0	26	16·5	1	16·8
*Roberval	48	31	72	13	352												
St. Anne de Bellevue	45	27	73	59						10·2		5	45·8	26	21·5	6	16·5
Shawinigan Falls	46	34	72	43						3·7	—	6	38·0	26	31·0	1	22·9
Sherbrooke	45	32	72	5	620					8·7	—	8	44·3	27	21·6	6	23·2
Shawbridge	45	54	74	3													

Station																	
Haileybury					5	1	1	8	2	7	4	17	11	56			
Kingston			7	6	6	23	3	3	0	5	11	5	0	56			
London			7	13	0	21	0	27	0	7	11	15	0	84			
Lindsay			7	10	8	3	12	13	9	1	16	13	6	84	II	VII	6 SE
*North Bruce					19	3	13	5	12	12	7	13	0	84			
Owen Sound					14	2	0	0	20	11	0	9	0	56			
Orillia					1	2	3	1	1	5	5	4	3	28			
Ottawa					9	7	21	1	0	1	10	1	0	56			
*Ottonabee					6	3	23	0	1	8	31	9	3	84			
Port Arthur			6	7	7	12	0	5	1	1	12	11	1	56			
Port Stanley			8	11	5	9	4	6	1	3	7	17	4	56			
Port Dover					2	2	7	3	2	3	2	7	0	28			
Parry Sound			7	7	5	12	2	13	1	8	2	13	0	56			
Stonecliffe (Rockliffe)					10	0	1	0	0	0	8	2	35	56			
Southampton			9	13	7	10	5	10	4	12	3	5	0	56			
Stony Creek			6	10	3	5	22	1	1	22	18	12	0	81	III	N	6 E
Toronto					6	7	13	1	0	8	11	5	2	56			
Uplands					11	0	10	0	13	0	11	0	8	56			
White River					9	0	7	2	1	0	11	1	22	56			
Woodstock		82	8	15	9	6	5	14	1	16	6	27	0	84	13	19·0	
Abitibi			6	5	13	9	12	6	11	7	12	14	0	84	II	IV	23 W
Brome					21	2	4	6	10	1	36	3	1	84			
Clarke City					5	4	0	0	0	1	7	11	0	28			
*Cape Chatte					5	1	3	2	0	1	23	1	18	84			
*Cape Magdalen					0	0	2	3	8	0	1	51	16	84			
Chicoutimi			5	2	0	3	0	21	0	54	0	3	0	84	III	VIII	8 SE
Father Point					3	3	6	2	1	14	1	16	7	56			
Montreal			6	7	9	6	9	2	2	16	7	5	0	56			
Quebec			6	7	0	3	13	1	2	17	19	1	0	56			

Station								
Haileybury	2·61	+0·67	1·06	13	15	5	0	3
Hamilton	2·60	0·16	1·20	5	23	0	0	0
Haliburton						0	0	0
Huntsville						0	0	0
Kakabeka Falls	2·60		1·30	7	21	2	0	0
Kingston	1·29	0·80	0·23	13	15	0	0	1
Kinmount	1·50		0·70	8	20	0	0	0
Lucknow	2·61	0·50	0·40	20	8	1	0	4
Lake Talon	2·15	+0·39	1·00	7	21	2	0	0
London	1·07		0·84	14	14	0	0	0
Lakeside Home						0	0	0
Lorno Park	1·81		0·50	7	21	0	0	0
Lindsay	1·39		0·70	9	19	0	0	0
Lakefield	1·60	0·84	0·60	8	20	1	0	0
*Midland	0·90		0·40	4	21	0	0	0
Madoc	1·90		0·40	[illegible]	[illegible]	0	0	0
Montague	1·50		0·40	7	21		0	0
Montreal River	2·72		1·30	9	21	0	0	0
*North Bruce	1·02	1·29	0·25	12	16	0	0	2
North Gower						0	0	0
Owen Sound	3·40	+0·81	0·80	7	21	0	0	2
Orillia						0	0	0
Ottawa	2·74	0·24	0·80	9	19	0	0	0
*Ottonabee	1·60	1·16	0·40	4	21	0	0	0
Port Arthur	1·28	−0·77	0·35	6	22	0	0	0
Port Stanley	2·84	0·14	0·58	17	1	0	1	4
Port Dover	2·46	0·60	0·73	12	16	0	0	0
Port Burwell	2·75		1·70	7	21	0	1	0
Parry Sound	1·67	1·56	0·35	12	16	0	0	0
Paris	3·29	+0·79	1·51	6	22	0	0	0
Peterboro	1·65	0·94	0·40	6	22	0	0	0
Ronville						0	0	0
Renfrew	2·93	1·55	0·60	11	17	0	0	7
Stonecliffe (Rockliffe)	1·84	−0·19	0·79	11	17	1	0	0
Southampton	2·78	0·18	1·09	17	11	0	0	0
*Sarnia	0·30	1·98	0·30	1	27	0	0	0
Stratford	1·56	1·29	1·30	2	26	0	0	0
Stony Creek	3·57	+0·18	1·21	8	20	0	0	0
Schreiber	3·70		1·40	6	22	7	0	0
Shelburne	1·40		0·30	8	20	0	0	1
Toronto	2·12	0·20	0·80	16	12	0	0	1
Uxbridge	1·89		0·40	12	16	0	0	0
Uplands	2·03	0·52	0·80	9	19	0	0	0
Ursa	2·10		0·50	8	20	0	0	[illegible]
White River	0·20	1·25	[illegible]	7	21	0	0	[illegible]
Woodstock	2·60	0·31	1·04	1	18	[illegible]	[illegible]	[illegible]
Welland	2·35	2·20	[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]
Windsor	2·53	0·16	0·71	9	[illegible]			
Wallaceburg	3·21		1·00	9	19	[illegible]		[illegible]
Abitibi	1·05	0·26	0·50	5	23	0	0	0
Brome	1·70	0·23	0·80	5	23	0	0	0
Clarke City	1·70		0·60	4	21	0	0	0
*Cape Chatte	0·90		0·50	[illegible]	[illegible]	0	0	0
*Cape Magdalen	1·04	1·10	0·50	9	19	0	0	[illegible]
Chicoutimi	0·90	0·70	0·18	8	20	3	0	0
Father Point	1·52	0·81	[illegible]	12	16	0	0	[illegible]
Lake Edward	1·40		0·60	5	23	0		
Montreal	3·29	+0·06	1·00	13	15	0		3
Quebec	1·90	1·16	0·66	12	16	4	0	1
St. Anne de Bellevue						0	0	—
Shawinigan Falls						0	0	0
Sherbrooke	2·48		0·73	19	9	0	0	

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, FEBRUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
NEW BRUNSWICK																																									
Chatham	47	3	65	29	21	30	02	30	70	29	19	1	21	11	2	2	9	36	12	0																						
Dalhousie	48	4	66	39										9	5			30	35	0																						
Fredericton	45	57	66	39	164	30	16	30	67	29	11	1	26	11	0	5	9	38	41	0																						
Grand Manan	44	47	66	46	43	30	03	30	54	29	18	1	06	12	1	1	8	26	46	7																						
Moncton	46	9	64	47	230									10	9	6	0	44	44	0																						
*Point Lepreaux	45	4	66	28	300									16	6	5	2	33	41	0																						
St. John	45	17	66	4	70	30	03	30	60	29	46	1	11	16	1	3	6	38	41	3																						
St. Stephen	45	11	67	16	335									12	5	4	5	44	41	0																						
Sussex	45	48	65	38	420									13	6	2	4	14	57	0	24																						
NOVA SCOTIA																																										
Antigonish	45	38	61	58	80									11	4			4	48	0																						
Halifax	44	39	63	36	88	29	99	30	63	29	46	1	17	17	7	6	2	36	47	0																						
Port Hastings	45	39	61	22	45													26	45	0																						
Parrsboro'	45	23	64	19	40									11	6	3	8	15	30	0	12	0	12	13	20	0																
Sydney	46	10	60	10	35	29	93	30	05	29	35	1	31	15	7	5	7	37	41	0									6	5												
*Sable Island, E. Point	43	58	59	56	115									22	5	4	5	24	39	0																						
Truro	45	22	63	18	90									13	5	6	1	37	41	0																						
Windsor	44	59	64	6	90									13	8	7	8	38	41	0																						
*Whitehead	45	15	61	5	30									18	7	4	5	28	31	0																						
*aWolfville	45	7	64	22	50									16	4	4	5	10	45	2																						
Yarmouth	43	50	66	2	60	30	03	30	52	29	53		97	20	9	1	9	30	43	7																						
P. E. ISLAND																																										
Charlottetown	46	14	63	10	38	29	98	30	61	29	18	1	16	14	0	1	1	35	40	0																						
Charlottetown (2)	46	14	63	7	50									13	4		1	40	40	0	27																						
Hamilton	46	20	63	18										10	9	8	14	40	0		27																						
NEWFOUNDLAND																																										
*Amour Point	51	28	56	51																																						
Burin	47	0	55	10	27	29	81	30	02	29	15	1	47	20	0			3	42	0	18																						
*Cape Norman	51	38	56	52																																						
Fogo	49	43	54	17	30	29	78	30	05	28	98	1	07	13	6			2	35	0																						
*Point Rich	50	42	57	25	35																																					
Port aux Basque	47	35	59	10	27	29	86	30	07	29	22	1	38	14	7			3	35	0																						
St. John's	47	34	52	42	125	29	71	30	26	29	03	1	53	17	9	5	4	38	56	0																						
BERMUDA																																										
Prospect	32	17	64	50	151	30	17	30	40	29	92	0	48	69	5	1	1	20	71	8	8																						

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING FEBRUARY, 1911.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS.
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—	in.			in.		in.		in.		
Alkali Lake.						2·5	2	1·7	3	
Annis	R	1	15	R	11	25·1	12	8·3	3	
Beaver Lake	1·02	7	21	0·35	12					
Coquitlam	1·17	9	19	0·88	12	*	4		2-24	
Denman's Island	2·67	5	23	0·59	12					
Ferguson						22·0	4	9·0	5	
Goldstream Lake	1·56	13	11	0·30	13	8·5	4	1·0	5	
Grand Forks	0·19	2	19	0·14	11	7·0	7	2·5	23	
Hornby Island	0·89	6	24	0·83	14	1·0	1	1·0	3	
Hydraulic						15·0	7	6·0	2	
Jordan River	3·80	15	10	1·20	13	2·5	3	1·5	5	
Jordan River (Bear Creek)	1·89	7	10	0·80	7	35·8	11	9·0	12	
Little Qualicum (French Creek, V.I.)	1·62	4	23	0·59	9	3·0	1	3·0	1	
Monte Creek						1·5	2	1·0	18	
Naas Harbour						29·0	8	8·0	5	
Skidegate	0·25	1	14	0·25	17	32·6	13	6·2	17	
Swift River Dam										
ALBERTA—										
Bardo										
Bismark						3·9	3	1·7	26	
Bruederheim						5·5	4	2·0	25	
Bittern Lake						2·8	3	1·8	2	
Bantry										
Brooks						7·4	8	3·0	26	
Conjuring Creek										
Coutts										
Campsie						2·8	6	1·0	1	
Caldwell						26·9	8	6·0	2	Aurora on 1, 21, 22, 23. Fog on 15. Fog on 17, 18.
Dorenlee						3·0	3	1·0	2-26	
Elkwater										
Grassy Lake						1·0	1	1·0	26	
Jumping Pound						2·1	3	1·0	15	
Lacombe	0·00					0·0				
Langdon										
Loch Sloy						15·1	7	7·0	25	
Lineham						2·0	3	1·5	27	Aurora on 21, 22, 23, 24. Fog on 5.
Lyndon						11·1	3	6·1	24	
Minda (Many Berries Ranch)						0·5	1	0·5	25	
Macleod						8·3	5	3·0	24	Aurora on 21, 22, 23.
Maycroft						13·5	5	5·3	2	Fog on 18.
Mayton										
Okotoks						6·3	4	3·5	25	
Ponoka						6·0	2	3·0	3-26	
Seven Persons										
Sion						3·8	4	2·0	25	
Tilley										Aurora on 1, 4, 5, 6, 7, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 28.
SASKATCHEWAN—										
Carmichael						14·8	5	4·5	1	
Coulee						3·8	2	2·8	25	
Elm How						3·5	3	2·0	7	
Gull Lake						5·0	3	3·0	23	
Hanley										
Kindersley						4·1	7	1·0	1-17	Fog on 14, 16, 17, 18.
Kelvinhurst						1·5	2	1·0	1	
Last Mountain										
Maple Creek						6·8	7	2·0	1	
Willow Creek						3·5	2	2·0	1	
MANITOBA—										
Cartwright						3·0	4	1·5	2	Aurora on 1, 22, 23, 24, 25, 27.
Deloraine						6·0	4	2·5	6	
Gretna						9·5	4	4·0	1-15	
Norquay						3·8	5	1·5	7	
Rapid City						6·1	5	3·1	2	Aurora on 21, 22, 23, 25, 26. Fog on 12, 13.
ONTARIO—										
Arden										
Deer Park	0·12	2	20	0·10	17	17·8	6	9·8	2	
Dutton	0·10	1	25	0·10	17	2·0	2	1·0	7-26	
Emsdale	0·27	1	16	0·27	18	8·5	11	1·8	22	
Georgetown	0·29	3	16	0·18	2	18·1	9	8·6	6	Aurora on 28.
Grantham	0·40	3	16	0·26	17	15·8	9	6·0	15	
Grand Valley	0·06	2	14	0·03	18-27	18·0	12	5·0	7	
Goderich	0·40	2	22	0·20	17-27	6·0	4	3·0	1	
MacCue	0·10	1	24	0·10	26	6·0	3	4·0	2	
Orangeville	0·31	1	13	0·31	17	35·2	14	14·2	7	
Princeton	0·50	1	24	0·50	17	16·0	3	8·0	14	Thunder on 17.
Sydenham						16·0	5	6·0	6	
Strathroy	1·31	3	17	0·61	17	12·0	8	4·0	6	
Watford	0·73	4	24	0·45	14					
Westport						10·8	7	4·5	7	
Wooler						4·5	3	2·0	4-7	
Westminster	0·23	1	25	0·23	18	8·0	2	5·0	6	
Wiarton	0·82	2	18	0·58	17	13·5	8	3·0	6	
Wesley	0·41	3	12	0·31	17	15·5	13	2·0	5-14	
QUEBEC—										
Timiskaming						22·0	8	13·5	1	
Kipawa										
NEW BRUNSWICK—										
Point Escuminac	0·40	1	24	0·40	5	3·9	3	3·2	5	Fog on 10.

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF FEBRUARY 1901

STATIONS.	Hour ending 1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.
Victoria		01	18	29	38	43	.41	53	49	39	31	15		
Nanaimo		.	15	21	29	35	*38	32	36	38	..	16		
Vancouver		01	10	18	24	32	*26	31	37	10	28	29	02	
Agassiz			07	25	36	33	38	39	31	38	36	17	02	
Tranquille														
Summerland		01	26	34	42	52	48	53	50	44	24	08		
Kamloops			05	29	45	62	70	65	61	*41	31	11		
Edmonton			20	52	64	70	78	77	75	66	60	29		
Lethbridge		01	32	49	67	73	62	62	55	47	34	03		
Lacombe			10	30	41	61	63	70	70	59	72	48	02	
Medicine Hat			18	43	57	60	62	67	67	66	57	32	.	
Fort Vermilion		..	.	15	55	63	61	66	74	60	24			
Battleford			T	25	48	76	*75	74	*73	67	52	19		
Indian Head		.	03	15	30	47	61	71	68	65	56	23	.	
Moosejaw		01	*10	25	41	68	75	79	78	69	61	33	.	
Rosthern		.	*09	*30	43	73	75	*76	73	65	65	34	*03	
Brandon		01	32	42	63	67	69	72	61	61	21	01		
Winnipeg		.	15	27	43	49	48	46	60	*54	54	33	02	
Haileybury	T		10	28	37	43	38	40	41	40	36	20	*01	
Woodstock	.		14	15	30	30	30	43	40	41	34	18	*01	
Lindsay	.		07	22	31	30	40	41	42	38	14	04	.	
Barrie	.		13	*19	25	27	*31	39	30	38	20	08	..	
Toronto	.	..	.	12	22	32	30	37	31	30	32	03	..	
Kingston	05		*22	35	41	*44	43	46	34	26	14	15	02	
Ottawa	.		28	48	*46	46	46	49	49	41	35	19	.	
Montreal			04	20	31	35	38	58	*34	18	06			
Quebec			*23	36	45	54	58	59	*58	46	42	26	.	
Sherbrooke			01	14	29	31	47	51	47	50	45	39	15	
Fredericton			*02	31	63	68	65	65	*61	61	62	30	46	03
Charlottetown			21	38	53	66	65	63	57	50	32	38	*03	

	Victoria.	Nanaimo.	Vancouver.	Agassiz	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.		
Registered duration in hours.	104	82	85	85		100	116	161	136	152	119	116	115	120	135	109	130	123	93	82	78	76	83	32	114	63	131	106	105	111		
Percentage of possible duration	37	29	30	30		36	42	60	48	55	43	42	43	46	55	61	49	44	33	28	30	26	28	32	39	25	46	36	37	40	..	..
Difference from average	- 9	- 2	-	- 8		..		..					- 4	9			- 2	- 4		- 2	- 5	- 2	- 8	4	2	- 5	+ 10		- 11	+ 10		..
Maximum percentage in one day	84	90	97	84		80	80	92	89	97	92	75	83	87	95	98	92	94	86	87	71	81	86	91	91	96	89	91	96	95		
Date of maximum	28	26	26	26		27	26	28	23	23	1	18	15	21	26	21	26	26	12	25	10	5	5	5	19	5	11	15	28	6	..	..
No. of days completely clouded	4	13	11	12		6	4	2	3	2	2	4	1	2	2	4	4	8	5	10	11	9	8	11	8	11	5	6	3	3	..	.

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Waitefield, IV; Aweme, III; Aitkensville, IV; Ninga, Cartwright, III; Sion, II; Campsie, III, Fort Vermilion, Fort St. James.
2. Pembina, Aweme, III.
3. Pembina, Fort Vermilion.
4. Pembina, Schreiber, IV; Aitkensville, IV; Sion.
5. Schreiber, IV; Sion.
6. Sion, Crescent Lake, IV; Fort Vermilion.
7. Threehills Creek, II ; Waitefield, II ; Sion, Peace River Crossing, IV.
9. Spirit River.
10. Spirit River.
12. Brownhill, IV.
13. Grand Manan, IV.
14. Grand Manan, IV; Fort Vermilion.
15. Pembina, Sion.
16. Waitefield, IV; Aitkensville, IV; Sion.
17. Hillsdown, IV; Threehills Creek, II ; Waitefield, III ; Aitkensville, III ; Sion, Peace River Crossing, IV; Fort Vermilion.
18. Hillsdown, IV; Threehills Creek, IV; Pembina, Waitefield, IV; Schreiber, IV; Aitkensville, IV; Bruce Mines, IV; Treherne, III ; Quebec, IV; Sion, III ; File Hills, Muenster, IV; Fort Vermilion.
19. Pembina, Aweme, IV; Minnedosa, IV; Sion, Brownlee, Luseland, Saltcoats, III.
20. Brandon, Threehills Creek, I ; Pembina, Waitefield, III ; Schreiber, IV ; Aweme, III ; Aitkensville, IV; Brandon, Bruce Mines, IV; Treherne, IV ; Gravenhurst, IV ; Sion, III ; Crescent Lake, IV; Chaplin, IV; Luseland, Muenster, IV; Melfort, IV; Oliver, Prince, II; Waseca, Stanley, IV; Fort Vermilion, Fort St. James; Haileybury III.
21. Hillsdown, III ; Halkirk, Gilt Edge, IV; Alix, Loch Sloy, Threehills Creek, I; Lumnford, Waitefield, I ; Schreiber, IV; Aweme, I ; Aitkensville, I ; Rapid City, Macleod, Kakabeka Falls, I ; Bruce Mines, I; Treherne, III; Truro, IV; Minnedosa, IV; Sydney, I; Grand Manan, IV; Charlottetown, IV; Sion, II ; Brownlee, Crescent Lake, III ; Chaplin, I ; Estevan, II ; Foxleigh, Luseland, Glenbryan, I; Muenster, I; Melfort, IV; Oliver, Prince, I ; Waseca, Saltcoats, III; Campsie, III ; Stanley, IV; Fort Vermilion, Fort St. James ; Wolfville III.
22. Hillsdown, III; Halkirk, Gilt Edge, II; Loch Sloy, Threehills Creek, II; Pembina, Waitefield, I; Schreiber, III; Aweme, I; Aitkensville, II; Carberry, Rapid City, Cartwright, II; Macleod, Lake Talon, Kakabeka Falls, IV ; Montague, Treherne, IV ; Gravenhurst, IV; Truro, IV ; Quebec, IV; Minnedosa, I; Sion, II; Peace River Crossing, IV; Crescent Lake, IV; Chaplin, II; Foxleigh, Lloydminster, Luseland, Glenbryan, I; Muenster, IV; Melfort, IV; Oliver, Waseca, Saltcoats, III; Campsie, I; Stanley IV ; Fort Vermilion, Fort St. James ; Haileybury IV.
23. Hillsdown, III; Loch Sloy, Threehills Creek, III; Pembina, Lumnford, Waitefield, III; Schreiber, IV; Aweme, II; Aitkensville, III; Rapid City, Cartwright, III; Macleod, Treherne, IV; Minnedosa, I; Sion, III; Peace River Crossing, IV; Brownlee, Crescent Lake, IV; Chaplin, II; Foxleigh, Lloydminster, Luseland, Glenbryan, I; Prince, IV; Campsie, II ; Dawson, IV; Spirit River, Fort Vermilion, Fort St. James.
24. Hillsdown, IV; Alix, Brandon, Loch Sloy, Threehills Creek, III; Pembina, Waitefield, II; Aweme, IV; Aitkensville, III; Carberry, Brandon, Cartwright, IV; Chicoutimi, Minnedosa, I; Sion, Foxleigh, Prince, II; Waseca, Dawson, IV; Spirit River.
25. Threehills Creek, III; Waitefield, IV; Aweme, IV; Rapid City, Cartwright, IV; Treherne, IV; Almasippi, Stonecliffe, II; Brownhill, III; File Hills, Crescent Lake, IV; Foxleigh, Oliver, Prince, III; Waseca; Dawson, IV; Spirit River ; Haileybury IV.
26. Hillsdown, IV; Threehills Creek, III; Pembina, Waitefield, II; Aweme, I; Aitkensville, III; Rapid City, Treherne, IV; Almasippi, Minnedosa, I; Peace River Crossing, IV; Brownlee, Crescent Lake, IV; Chaplin, II; Melfort, IV; Prince, III; Waseca, Saltcoats, IV; Fort Vermilion.
27. Halkirk, Gilt Edge, III; Threehills Creek, III; Pembina, Waitefield, II; Aweme, I; Aitkensville, III; Cartwright, IV; Lake Talon, IV; Lakefield, Almasippi, Chicoutimi, Quebec, IV; Winnipeg, II; Chaplin, II; Glenbryan, I; Muenster, IV; Melfort, IV; Oliver, Prince, IV; Saltcoats, IV; Haileybury III.
28. Pembina, Georgetown, III; Montague, Clinton, I; Lucknow, IV; Chicoutimi, Truro, IV ; Quebec, III; Sion, III; Crescent Lake, IV ; Luseland, Prince, IV ; Dawson, IV ; Babine Lake ; Haileybury IV ; Wolfville IV.

Thunder recorded :

4. Yarmouth.
17. Port Burwell, Birnam, Princeton, Port Stanley.
24. Bermuda.

FORECASTS FOR FEBRUARY, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1151. These were divided as follows:

District.	No. Issued	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	78	63	29	4	90·7
Saskatchewan	79	58	15	6	82·9
Manitoba	79	62	13	4	86·7
Lake Superior	98	74	20	2	87·5
Lower Lake Region	109	86	17	3	89·1
Georgian Bay	110	83	20	2	88·6
Ottawa Valley	98	73	17	6	85·2
Upper St. Lawrence	98	74	20	4	85·7
Lower St. Lawrence	98	79	11	8	86·2
Gulf	98	75	19	4	86·2
Maritime Provinces West	109	87	16	6	88·0
Maritime Provinces East	108	85	18	5	87·0
Total	1151	891	206	54	86·1

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
April 28, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. MARCH, 1911. No. 3.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

On the southwestern extremity of Vancouver Island and on the Queen Charlotte Islands, the mean temperature of March was somewhat less than normal. Elsewhere in the Province of British Columbia the month was warmer than the average, by 1° to 3° in the western and central portions and by 5° to 6° in the extreme southeastern portion, where conditions during the month were similar to those which obtained in Alberta. During the first week temperatures were quite low. Zero to 9° below was recorded on the higher levels to the east on the first two days, and 10° to 25° above zero on the lower levels to the west and on the coast. The maximum temperatures varied between 42° and 70°, but 60° was reached at the majority of the stations on the 18th, 22nd or 30th. The precipitation of the month appeared to be deficient on Vancouver and on the lower mainland, but in excess of the normal in the Cariboo district.

In the Western Provinces the weather of March was very mild. The mean temperature in Alberta and Saskatchewan exceeded the normal by from 8° to 13° and in Manitoba by from 7° to 9°. In Alberta temperatures of zero or below occurred on an average of three days only during the month, and at many points not at all. The latter half of the month was very mild. Between the 21st and 24th temperatures ranging from 50° to 70° were recorded, while 84° were registered at Medicine Hat on the 23rd. The total precipitation in Alberta was much less than normal, except at Calgary.

The lowest temperatures of the month occurred on the 4th, 5th, 14th and 15th in Saskatchewan, when from 3° to 9° below zero were recorded. On 18 to 20 days the maximum temperatures were above the freezing point, while the highest readings of the month were, at many stations, between 50° and 65°. Very few places reported precipitation on more than three days, and the total fall was very much less than usual.

In Manitoba conditions were much the same as in Saskatchewan, although the maximum temperatures were in most instances not so high. The precipitation occurred on from one to three days in the western portion of the province and on seven days in the eastern, but was in all instances considerably less than normal.

The western Lake Superior districts experienced weather conditions similar to those which obtained in Manitoba, the mean temperature exceeding the average by 7°, while the precipitation was very scanty. In the Niagara peninsula the mean temperatures were 1° or less below average, and in Essex county about 2° below. In the remainder of that portion of Ontario, lying between the Georgian Bay, Lake Huron and Lake Erie, the normal temperature was exceeded by from 1° to 3°. In the counties lying between Lake Ontario, the Ottawa and Upper St. Lawrence rivers, less than average was recorded, the deficiency ranging from 2° at Peterborough, Prince Edward County and Kingston to 4° at Ottawa. The precipitation was either average or in excess in the peninsula of Ontario, but was deficient elsewhere in the province.

In the Gulf counties of Quebec temperature conditions were nearly normal throughout the month, but along the Middle St. Lawrence and in the Eastern Townships the month was colder than usual by about 3°. In the Eastern Townships the precipitation was in excess of the normal quantity, but

elsewhere was deficient. From the 1st to the 9th, and from the 16th to the 20th, temperatures considerably below zero were registered throughout the province. The 26th, 27th and 28th were the mildest days of the month, temperatures ranging on those days from 45° to 50°.

The month was colder than usual in the Maritime Provinces, with mean temperatures from 3° to 4° below normal. Except locally on the Bay of Fundy, the precipitation was less than average.

ATMOSPHERIC PRESSURE

The mean value of the atmospheric pressure for March was below the normal throughout Canada, except in southern and southwestern British Columbia, where the average was exceeded. Departures from average were generally more than a tenth of an inch in the Western Provinces and northern districts of Ontario and Quebec, and that difference was positive over southern parts of Vancouver Island.

The range of departure was 0·29 of an inch, with extremes of −0·19 of an inch at Battleford, Sask., and 0·10 of an inch at Victoria, B.C.

HIGH AREAS.

Twelve systems of high pressure were traced; five first appeared in the vicinity of the Yukon Territory, one on the coast of Northern British Columbia, two in Northern Saskatchewan, and four on the United States Pacific coast. Many of the systems were pronounced and in their passage over the continent they usually covered great areas. Their general path was either over or to the southward of the Great Lakes, thence off the Middle Atlantic United states Coast and out to sea. The presence of such a large number of high pressure systems, accompanied as they were, for the most part, by low temperatures, tended to keep the weather very backward generally.

LOW AREAS.

Sixteen areas of low pressure were charted; six first appeared on the Alaskan coasts, three on the coast of Northern British Columbia, one each in Northern and Southern Alberta, one on the Middle United States Pacific coast, one in the Gulf of Mexico and three off the Atlantic seaboard. The depressions from the Northwest and West all traversed the continent between the 50th and the 55th parallels of latitude, the larger number ultimately sweeping across the Maritime Provinces and Newfoundland, where they caused frequently recurring stormy conditions. The others passed northeastwards far out to sea, their accompanying bad weather being pretty well confined to Newfoundland.

WINDS, MARCH, 1911.

PROVINCE AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
British Columbia.							
Victoria	5191	418	37	3	4	12	S. to W.
Prince Rupert	1046	475	35	1	5	6	E., S.
Kamloops	3546	386	24	0	2	7	Variable.
Triangle Island	10014	813	34	4			
Alberta.							
Sulphur Mt., Banff	18281	1122	68	6	11	5	S. to W.
Edmonton	4900	284	26	0	7	12	S.W. to N.W.
Saskatchewan.							
Prince Albert	5175	398	31	1	4	12	S.E., S.W., N.W.
Battleford	8644	560	59	2	5	9	S.E., W., N.W.
Swift Current	9067	551	44	3	10	5	S., W., N.W.
Qu'Appelle	6894	435	24	0	7	16	S.W., N.W.
Manitoba.							
Winnipeg	11382	669	43	0	16	7	N., W.
The Pas	8061	661	49	2	7	7	E., S., W.
Ontario.							
Port Arthur	8826	567	33	4	11	11	S.W., W., N.
Woodstock	8423	540	28	1	12	15	S.E., S.W., N.W.
Parry Sound	6749	388	21	0	4	21	S.E., S.W., N.W.
Toronto	10778	669	45	6	10	19	E., W., N.W.
Kingston	8866	487	14	0	0	9	N.E., S.E., S.W.
Quebec.							
Montreal	12267	685	39	5	15	8	S.E., S., W.
Quebec	9629	938	69	4	11	10	S.W., W.
Father Point	14119	975	65	7	7	7	S.W., N.W.
Maritime Provinces.							
Pt. Le Preaux	13237	926	53	5	9	3	S.W., N.W., N.
St. John	10813	718	52	5	12	7	S., S.W., N.W.
Fredericton	6889	471					S.W., W., N.W.
Halifax	10058	638	46	0	9	8	S.W., W., N.W.
Flat Pt	11058	659	41	5	14	6	S.W., W., N.W., N.
Charlottetown	6611	605	36	3	6	19	S., W.

TEMPERATURE.

Over the greater part of British Columbia the mean temperature of March was higher than normal; by 1° to 3° in the western and central portion, and by 5° to 6° in the extreme southeast. The month was very mild in the Western Provinces and the Lake Superior districts of Ontario, the mean temperatures exceeding average by from 7° to 13°. In the Niagara peninsula and the greater part of Eastern Ontario, the month was colder than usual by from 1° to 4°, in western and central Quebec and the Maritime Provinces by from 3° to 4°.

The highest and lowest temperatures recorded in each Province during the month of March, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	70° at Alberni on the 14th,	—29° at Atlin on the 10th.
Alberta,	84° at Medicine Hat on the 23rd,	—25° at Peace River Crossing on the 11th.
Saskatchewan,	64° at Glenbryan on the 21st.	—25° at File Hills on the 3rd.
Manitoba,	58° at Morden on the 24th & 25th.	—22° at Oakbank on the 4th.
Ontario,	61° at Wallaceburg on the 26th.	—38° at White River on the 3rd.
Quebec,	52° at Abitibi on the 26th,	—38° at Lake Edward on the 4th.
New Brunswick,	52° at St. Stephen on the 26th and Moncton on the 27th,	— 16° at Dalhousie on the 4th.
Nova Scotia,	58° at Port Hastings on the 30th.	—12° at Antigonish on the 7th.
P. E. Island,	49° at Hamilton on the 31st.	— 8° at Charlottetown on the 5th.

PRECIPITATION.

Except in the Cariboo district and locally in the mountainous portion of the province, the precipitation was less than normal in British Columbia. Over the remainder of the Dominion the amount was very scanty, especially in the Western Provinces, where in some districts precipitation occurred on one or two days only. The Peninsula of Ontario reported amounts which were normal or slightly above, as did also stations on the Bay of Fundy, but elsewhere the precipitation was deficient.

SNOW ON THE GROUND.

At the close of the month the whole of the Province of Quebec and most of northern Ontario were well covered with snow, while in other parts of the Dominion there was no snow except in the wooded portions.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. MARCH, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.
BRITISH COLUMBIA				in.	in.	in.	in.								
Alberni (Beaver Creek)	49 15	124 49	300					43.6	1.6	16	70.0	14	27.0		25.1
Agassiz	49 14	121 31	52					42.1	0.1	19	65.0	24	29.0		19.[illegible]
Atlin	59 35	133 38	2240	29.92	30.57	28.91	1.58	11.[illegible]			40.0	1	28.5	10	16.1
Barkerville	53 2	121 35	4180	29.90	30.48	29.25	1.23	25.1	3.8	21	44.0	19	9.0	21	13.9
Bella Coola	52 40	126 51	150					38.8	1.9	13	57.0	17	15.0	3	19.0
Babine Lake	55 38	126 26						28.0		3	52.0	23	4.5	1	21.0
Boswell								36.8		1	54.[illegible]	31	19.0	1	15.1
Chilcotin (Big Creek)	51 40	123 0	3100					33.0		8	61.0	29	7.0	11, 25	26.8
Cranbrook	49 30	115 50						36.1		2	62.0	21, 22	2.0	1	21.6
Clayoquot	49 11	125 47	10					43.1	1.1	11	58.0	15	27.0	3	15.[illegible]
Cowichan (Tzouhalem)	48 25	123 42	170					43.2		5	59.2	30	23.4	2	20.3
Chilliwack	49 10	121 57	21					43.9	1.2	11	65.0	15	23.0	2	19.8
Enderby	50 32	119 7	1180					36.6		9	65.0	29	0.0	2, 3	23.7
Fort St. James (Stuart's Lake)	54 28	124 12	2280					28.5	7.2	18	46.[illegible]	13, 19	[illegible]	1	29.9
Fairview	49 11	119 36						43.8		2	73.0	31	12.0	5	22.0
Fruitvale	49 9	117 31						35.5		2	65.0	30	2.0	2	27.0
Glacier	51 14	117 29	4072					28.8	2.7	13	45.0	21	10.0	1	12.1
Golden	51 16	116 55	2550					32.6		8	54.0	18	6.0	1	25.0
Grand Forks										1	69.[illegible]	29			
Holberg	50 39	128 18						38.6		2	52.0	19	23.0	3	10.1
Hedley	49 35	120 10						40.[illegible]		7	67.0	31	10.0	1	23.6
Hedley (Nickel Plate)								21.6		6	42.0	20	5.0	14	15.1
Hope	49 23	121 25						42.2		2	68.0	31	21.0	1	21.6
Ikeda Bay	52 17	131 7	5												
Kamloops	50 41	120 29	1215	29.98	30.52	29.41	1.11	39.1	2.6	17	64.5	29	1.8	1	21.1
Ladner	49 5	123 1						45.0	3.2	11	59.0	14, 31	25.0	1	13.7
Massett, Q.C.I.	53 58	132 9	50					38.1	1.2	13	48.0	17, 18	28.0	7, 10	10.5
a Nanaimo	49 10	123 57	125	29.99	30.46	29.47	0.99	42.1	0.7	13	59.0	31	21.2	2	17.9
Nicola Lake	50 9	120 30	2120					31.1	1.6	16	64.0	21, 23	4.0	4	20.0
North Nicomen	49 12	122 2	50					44.3	1.6	19	65.0	15, 19	26.0	2, 3	19.6
New Westminster	49 13	122 54	330					43.5	1.0	17	60.0	22	27.0	1	17.2
Nelson	49 29	117 21	1760					39.1		8	65.0	29	12.5	1	21.7
Needles								37.6		2	61.0	30	4.0	2	23.0
Okanagan Mission (Kelowna)	49 52	119 29	1200					37.0	0.7	17	62.0	20	3.0	1	20.8
Princeton	49 25	120 30	1650					34.6	1.8	16	62.5	31	6.0	1	28.8
Penticton	49 30	119 35						38.1		5	64.5	29	11.0	1, 3	21.1
Pemberton Hatchery	50 20	122 53						39.3		5	60.0	20	19.0	1, 7	20.3
Prince Rupert	54 18	130 18	170	29.95	[illegible]	29.31	1.26	37.0		2	49.0	21	27.0		9.1
Quesnelle	52 59	122 30	1700					32.1	1.5	14	57.0	30	5.0	1	25.1
Revelstoke	51 0	118 6	1476					34.2	0.9	11	66.1	19	1.0	2, 3	23.1
Rossland	49 5	117 48	3400					36.7		8	57.5	29	18.0	1	15.0
Ruskin (Stave Falls)	49 16	122 23	125					42.7		2	60.0	29	25.0	1, 2	18.3
Salmon Arm	50 42	119 35	1152					36.3		9	61.0	29	5.0	1	21.6
Steveston (Garry Point)	49 21	123 17						40.9	0.3	16	53.5	29	25.0	1, 3	11.0
Swanson Bay	50 37	126 53						35.3		5	43.0	15	20.0	2	8.3
Salt Spring Island	48 50	123 20													
Summerland	49 37	119 40	1100					38.3		4	62.0	27	10.0	1, 3	19.0
Sooke	48 41	123 44	25					42.8		1	63.0	16, 21	24.0	1	21.0
Stewart	56 1	130 1	215					31.1		1	42.0	30	18.0	7	16.2
Tobacco Plains (Elko)	49 1	115 5	2684					40.1	6.0	16	61.1	31	11.0	1	19.2
Triangle Island	50 52	129 5	680	30.08	30.50	29.54	1.05	36.7		1	41.0		30.0	10, 11	3.2
a Tranquille	50 41	120 29		28.76	29.50	28.22	1.28	39.2		3	62.0	29	10.0	1	22.2
Vernon (Coldstream Ranch)	50 14	119 15	1575					36.8	1.4	16	62.0	29	5.0	1	19.3
Victoria	48 24	123 19	85	30.08	30.51	29.51	1.00	43.7	0.5	18	57.1	15	27.2	2	16.0
Vancouver	49 17	123 5	136	30.09	30.52	29.53	0.99	42.9		7	59.6	22	27.9	1	13.9
Winter Harbour	50 32	128 3						41.2	1.8	16	53.0	15, 16	28.0	1, 7	11.3
Wilmer	50 31	116 14						34.0		2	63.0	31	9.0	1	27.8

STATION.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from (N., N.E., E., S.E., S., S.W., W., N.W., C.)	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more	No. of fair days.	No. of auroras.	No. of thunderstorms.	No. of fogs.
All stations	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Yukon :—																																								
Carcross	60	11	134	31	2171					11·2	—	4	40·0	16-29	-33·0	10	22·5																0·58	—	0·30	4	27	0	0	0
Dawson	64	4	139	20	1200	30·08	30·86	29·32	1·54	1·0		9	37·0	28	47·0	13	23·0	5	4	9	0	0	1	6	0	0	7	39	62				0·77		0·14	11	20	7	0	0
White Horse	60	45	135	0	2075																																			
Alberta—																																								
Athabasca Landing	54	43	113	17	1650					24·9	—	8	51·0	1-19	-12·0	3	25·2			1	2	2	0	4	2	11	9	0	31				1·16		0·41	4	27	0	0	0
Alix	52	21	113	10						28·3	—	2	64·0	23	-8·0	5	25·6			2	0	0	6	3	5	6	6	3	31				0·92		0·27	7	24	1	0	1
Banff	51	10	115	34	4542	29·93	30·51	29·22	1·29	32·1	+10·1	16	52·1	22	5·0	5	17·6		9	2	8	0	3	0	33	5	0	10	62				0·51	0·94	0·15	9	22	1	0	0
Blairmore	49	40	114	30	4225					33·5		1	57·7	19	-2·3	4	22·3																0·20		0·20	4	30	0	0	0
Calgary	51	2	114	2	3389	29·86	30·58	29·30	1·28	34·6	+11·8	27	64·0	19	10·0	1-11	20·1		4	1	11	2	10	4	3	6	11	17	62				1·04	+0·30	0·50	9	22	0	0	0
Cardston	49	12	113	18						34·7	—	7	60·0	19-29	15·0	10	22·9																0·30		0·20	2	29	0	0	0
Didsbury	51	40	114	8	3300					36·3	—	9	68·0	19	2·0	8	23·2			1	3	2	3	7	4	0	9	2	31				1·55		0·50	7	24	0	0	0
a Dunvegan	55	56	118	35	1305																																			
Daysland	55	52	112	17																																				
Edmonton	53	33	113	30	2158	29·86	30·65	29·18	1·47	32·5	+11·0	29	63·0	23	-1·0	11	22·8		7	7	6	1	8	7	7	12	11	3	62				0·39	0·38	0·16	7	24	4	0	0
Eckville	52	23	114	22						28·0		4	59·0	21	0·0	9-12	21·5																0·52		0·12	4	27	0	0	0
Endiang										25·2		1	62·0	23	-3·0	4	22·8																0·29		0·15	2	29	0	0	0
Fort Vermilion	58	27	116	3						13·1		6	48·5	18	-35·0	11	21·7																1·15		1·00	6	25	9	0	0
Gleichen	50	59	112	54	2952					33·2	+8·8	12	67·0	19	3·0	4	21·8																0·9[illegible]		0·40	4	27	0	0	0
Gilt Edge	52	59	110	13						21·7		2	56·6	23	10·0	11	20·2																0·15		0·05	4	27	0	0	0
Hillsdown	52	14	113	29	2806					32·0		7	64·0	23	1·0	8	20·3			1	7	2	9	9	0	3	15	2	62				0·87		0·20	8	23	3	0	0
High River	50	35	113	53	3394					31·4		8	61·0	21	8·0	10	21·9																1·50	—	0·25	15	16	0	0	0
Harmattan	51	45	114	23	3500					30·0	—	4	61·0	20	-3·0	4	26·8																1·28		0·10	7	21	0	0	0
Halkirk. (Emsburg)										26·4	—	2	55·0	23	0·0	15	18·1			3	3	3	9	2	23	7	12	0	62				0·54		0·37	4	27	3	0	2
Lethbridge	49	42	112	54	2961					38·3	+8·1	10	68·9	20	9·8	1	23·0																0·12		0·47	3	28	0	0	0
Lethbridge (Exp. Farm)	49	43	112	54						38·3		4	70·5	19	10·5	1	23·5																0·32		0·13	3	28	0	0	0
Lacombe	52	58	113	44	2783					29·4		4	61·7	23	-3·7	8	23·5																1·01		0·24	8	23	0	0	1
Lawrence	50	16	113	26						35·7		5	68·0	19	-13·0	1	28·0																0·52		0·20	5	26	0	0	0
Lunnford	54	33	114	19						28·4		2	56·5	1	-16·0	11	21·5																0·27		0·22	3	28	0	0	0
Loveland	52	30	111	59									—	—	0·0	6				3	1	2	1	2	8	8	10	0	38				0·12		0·07	2	29	0	0	0
Medicine Hat	50	1	110	37	2161	29·91	30·65	29·26	1·39	37·7	+12·9	27	84·0	23	8·2	1	21·0		3	7	5	1	2	1	9	19	9	6	62				0·32	0·35	0·06	4	27	0	0	0
Macleod	49	44	113	24	3128					35·7	+12·1	16	69·0	20	2·0	5	23·9			0	1	5	0	0	1	23	0	1	31									0	0	0
Peace River Crossing	56	15	117	15						22·4		4	54·0	19-23	-25·0	11	25·0																0·50		0·30	3	28	0	0	0
Pembina	54	12	114	0						24·3		4	55·0	14	-20·0	11	26·0			11	7	7	5	0	2	11	5	0	51				0·60		0·15	5	26	[illegible]	0	0
Pakan (Victoria)	54	0	112	31						25·7		4	54·0	19	-15·0	11	25·5			1	5	1	1	6	13	12	17	6	62				0·8[illegible]		0·25	7	24	1	0	0
Pincher Creek	49	40	114	4	3750																																			
Red Deer	52	16	113	49																																				
Spirit River	55	40	118	47						26·0		2	52·0	1	-12·0	8-9	21·2																0·96		0·10	7	24	5	0	0
Threehills Creek	51	30	113	14						30·9	—	9	66·0	23	0·0	4	21·9																0·77		0·20	10	21	5	0	1
Wetaskiwin	52	58	113	23	2480					29·5		9	56·0	24	2·0	5	17·9																2·10		1·00	7	24	0	0	0
Waitefield	53	29	111	38	2000					24·6		6	50·8	23	-12·3	11	22·3			5	3	11	10	4	6	18	29	7	93				0·52	-	0·17	12	19	5	0	0
Saskatchewan—																																								
Battleford	52	41	108	20	1620	29·90				24·5	+11·4	20	51·0	19	-8·0	15	20·5			1	1	1	19	0	10	13	26	17	91				0·01	0·65	0·01	1	30	0	0	0
Broadview	50	23	102	33	1960																																			
Brownlee	50	45	106	0						24·9		1	53·0	20	-3·8	4	19·3			3	1	1	1	1	11	3	3	1	31				0·49		0·35	5	26	1	0	0
Boutin										22·4		1	52·0	20	-17·0	6	23·5																1·05		0·25	9	22	[illegible]	0	0
Chaplin	50	26	106	39	2202					25·9	+10·0	25	60·0	20	7·0	14	22·6																0·15		0·06	7	24	1	0	0
Cannington Manor	49	43	102	2	2064					20·2	+6·5	12	42·0	22-25	13·0	4	17·9			1	0	0	7	0	1	4	15	0					0·45		0·30	4	27	[illegible]	0	0
Crescent Lake	50	59	102	25	1658					19·6		8	42·4	29	15·0	4	21·5			4	0	0	4	3	6	7	6	1	31				0·47		0·10	5	26	7	0	0
Duck Lake	52	54	106	20																																				
Estevan	49	12	103	4	1858					25·4		8	55·0	22-23	10·0	4	18·9			0	0		2	5	6	2	10	3	31				0·2		0·20	1	30	[illegible]	0	0
East End	49	31	108	49																																				
Foxleigh	50	37	104	29						23·2		2	46·0	24	10·0	15	19·8																0·08		0·08	1	20	2	0	1
File Hills	51	4	103	31						21·3		1	54·0	25	25·0	3	27·6																0·20		0·20	1	30	0	0	0
Grenfell (Brownhill)	50	23	102	53	1957					23·8		9	48·0	25	12·0	15	20·5			3	3	2	5	5	28	4	12	0	62				0·28		0·10	4	27	1	0	0
Govan	51	17	104	54						22·3	—	2	48·0	21	-10·4	4	19·7																0·13		0·10	9	22	0	0	0
Glenbryan (Larchmount.)										27·8		1	63·5	21	14·0	4	24·4			2	1	1	6	2	25	11	14	0	62				0·83		0·40	5	26	5	0	1
Humboldt	52	12	105	9						21·4	—	4	48·0	20	-18·0	1	17·7																0·06		0·05	1	30	0	0	0
Hubbard (Drumague)	54	5	103	24						19·5	—	5	44·0	20-30	20·0	15	19·4																0·10		0·10	1	30	0	0	0
Indian Head	50	28	103	40	1924					21·7	+7·9	19	45·0	24	11·0	4	24·2			0	7	3	7	15	22	2	34	3	93	IV	IX	11 NW	0·28	0·37	0·25	5	26	0	0	0
Kamsack	51	30	101	52																																				
Lloydminster	53	18	110	0						20·8		4	48·5	24	15·0 5	11	23·0																					0	9	0
Lanigan	51	51	105	2																																				
Luseland. ‖										23·9		1	52·0	23	17·0	5	18·6																					0	0	3
Moose Jaw	50	21	105	35	1759					25·5	+12·[illegible]	16	60·0	23	10·0	4	20·1			5	0	7	9	2	9	22	12	26	93				0·06		0·06	2	29	0	0	1
Moosomin	50	0	101	37	1884					23·1		9	46·0	24	10·0	15	15·9			0	0	5	5	10	2	4	5	0	31				0·20		0·20	1	30	0	0	0
Muenster (St. Peter's Monastery)	52	0	105	0	1870					21·5		5	43·0	28	8·0	11	19·9			5	1	0	1	0	18	0	3	0	31				0·20		0·20	1	30	8	0	0
Melfort	52	47	104	30						21·3		2	49·0	24	16·5	4	20·9																0·20		0·10	3	28	6	0	0
Maple Creek	49	55	109	28																																				
Orion Lake	53	52	109	59																																				
Oliver	51	46	108	10						23·4		1	56·0	23	11·0	5	22·7																					9	0	0
Pense (Gatesgarth)	50	20	105	0	1878					21·8	+7·9	13	47·0	24	11·0	14	21·4			0	2	1	3	2	4	9	10	0	31									2	0	0
Prince Albert	53	10	106	0	1432					21·7	+9·4	6	53·5	20	15·0	15	22·3			3	0	1	5	7	5	8	5	28	62				0·11	0·32	0·10	2	29	1	0	0
Prince (Meota)	54	0	108	20	170					20·5		4	45·0	20	19·0	14	25·0																0·45		0·30	2	29	8	0	0
Qu'Appelle	50	30	103	47	2115	29·94				23·2	+8·9	27	46·0	24	12·0	15	16·9			3	1	1	5	8	21	6	15	1	61				0·32	0·76	0·30	2	29	0	0	0
Regina	50	27	104	37	1885					22·4	+10·0	25	45·0	24	9·0	15	18·1																0·10	0·07	0·2	3	28	0	0	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MARCH, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n.	Highest.	Date.	Lowest.	Date.	Mean daily range.
SASKATCHEWAN—Con.				in.	in.	in.	in.								
Rathmullen	51 20	108 57						21.2		1	45.0	21	11.5	9	20.5
Rosthern	52 40	106 20	1657					18.0		1	42.3	21	14.0	15	21.9
Swift Current	50 20	107 45	2139	29.95				30.9	+10.9	24	62.0	23	−2.0	15	17.6
Saskatoon	52 15	106 30	1571					22.6	+10.6	13	51.2	24	11.0	4	19.3
Strassburg	51 5	104 56						22.1		1	48.0	21	7.0	15	19.8
Scott (Hearts Hill)	51 50	109 30													
Stanley Mission															
The Pas	53 49	101 15	860					13.5		1	47.0	13	−16.0	5	22.3
Waseca	53 6	109 29						21.5		3	47.0	20	15.0	15	21.0
Yorkton	51 11	102 29													
Yarbo (Fairfield)	50 39	102 4						17.8		4	41.0	26	20.0	15	22.4
MANITOBA—															
Almasippi	49 11	99 20						21.5		9	57.0	24	9.0	4	20.5
a Aweme (St. Alban's)	49 42	99 33	1180	28.65	29.30	28.13	1.17	24.1	+8.5	24	48.0	25	8.0	15	22.4
Brandon	49 51	99 57	1176					22.0	+7.7	21	48.4	21	13.1	4	21.0
Berens River	52 18	97 23	710					16.0		3	47.0	25	24.0	4	27.5
Carberry	49 52	99 20	1258							6					
Carman	49 31	98 0	872												
Cypress River	49 33	99 3	1232												
Dauphin	51 8	100 2	957												
Hillview	49 55	100 33	1400					20.7	+7.1	25	43.0	21	17.0	4	18.8
Minnedosa	50 15	99 50	1690	29.95	30.60	29.32	1.28	21.1	+6.2	28	44.0	25	15.6	4	20.5
Morden	49 11	98 6	978					27.5		9	58.0	24 25	6.0	15	23.6
Moose Horn Bay (Aitkensville)	51 15	99 33						15.6		4	49.8	9	20.5	4	28.6
Ninga	49 14	99 51	1649					26.6		4	52.2	20	0.0	3	21.4
Oakbank	49 57	96 42	800					21.3	+6.8	16	50.0	25	21.5	4	17.8
Pipestone	49 34	100 58	1400												
Portage la Prairie	49 57	98 17	830					22.8	+6.8	21	50.0	21 25	7.0	11 15	21.4
Portage la Prairie (2)	49 56	98 17													
Pierson	49 11	101 5	1531												
Stony Mountain	50 10	97 14	803					16.2	+2.7	29	47.0	26	15.0	4	21.2
Swan River	52 6	101 15	1112												
Treherne	49 36	98 40	1212					21.5	+8.9	16	51.0	21	8.0	15	20.7
Virden	49 51	100 55	1444												
Winnipeg	49 55	97 7	760	29.98	30.61	29.39	1.22	23.5	+8.8	37	52.5	21	11.4	3	19.7
ONTARIO—															
*Alton	43 51	80 5	1250					22.8	−1.6	25	51.2	27	−10.8	5	22.0
Aurora	43 57	79 24	886					25.5	−	3	52.6	26	−3.5	5	18.1
Agincourt	43 47	79 16	590					28.1	+0.6	17	55.4	27	0.0	16	14.6
Barrie	44 23	79 41	839					23.9	1.3	35	48.9	26	4.0	16	16.5
Beatrice	45 8	79 20	800					21.6	0.0	36	47.0	26	12.0	5	21.7
Bruce Mines	46 18	83 55	595					23.7	0.3	13	50.0	26	10.0	3	22.6
Birnam	43 2	81 55	600					29.8	+2.5	26	52.2	26	5.0	16	13.4
Brantford	43 10	80 21	750					28.9	+0.3	31	54.0	26	1.0	6	17.2
Bloomfield	43 59	77 21	290					27.4	1.9	12	51.0	28	3.0	5	11.4
Bancroft	45 1	77 50						20.2	1.0	22	49.0	26	20.0	6	26.4
Copper Cliff	46 30	80 59						19.6		6	48.0	26	12.0	16	22.6
Clinton	43 32	81 37						25.6		8	51.0	27 28	2.0	7	16.5
Coldwater	44 38	79 40	600					21.8	2.0	23	53.0	27	−17.0	7	23.0
Cottam	42 7	82 45	606					30.8	2.8	23	50.0	25	3.0	15	22.4
Chatham	42 23	82 12	595					33.1	+0.9	24	59.0	11	5.0	16	18.4
Cochrane	49 2	81 0	930	30.00	30.60	29.39	1.21	18.0	—	1	54.0	14	30.0	3	25.9
Collingwood	44 31	80 2						—	—	—		—			
East Toronto	43 35	79 18						27.9	—	5	52.0	27	−2.0	16 21	17.1
Elora	43 41	80 21	1271					26.1	+2.5	11	53.0	26	−3.0	5 16	17.0
Gravenhurst	44 54	79 20						20.2	−3.3	40	49.0	26	−22.2	5	25.0
Guelph	43 33	80 16	1050					27.9	+2.3	23	53.0	27	0.0	16	16.0

STATION.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunderstorms.	No. of fogs.
SASKATCHEWAN—Con.																									
Rathmullen																		[illegible]		0.10	[illegible]	28	0	0	0
Rosthern																		[illegible]		0.10	2	[illegible]	0	0	0
Swift Current					3	1	2	3	14	18	21	25	2	92				[illegible]	[illegible]	0.10	6	[illegible]	0	0	[illegible]
Saskatoon																		0.30		0.10	4	27	0	0	0
Strassburg																							0	0	0
Scott (Hearts Hill)																									
Stanley Mission																									
The Pas					2	0	22	0	6	0	30	0	0	60				0.52		0.33	7	21	1	0	0
Waseca					0	2	1	7	1	5	6	6	3	31				0.25		0.10	4	27	0	0	0
Yorkton																									
Yarbo (Fairfield)					2	1	1	4	2	3	4	13	1	31				[illegible]		0.35	6	25	5	0	1
MANITOBA—																									
Almasippi																							0	0	0
a Aweme (St. Alban's)																		0.29	[illegible]	0.13	6	25	7	0	0
Brandon			4	0	1	21	0	7	0	7	18	37	2	93	1	11	14 SW	0.10	0.56	0.05	2	29	1	0	0
Berens River					14	3	12	4	15	4	3	6	1	[illegible]				0.10		0.15	3	28	0	0	0
Carberry																		0.20		0.20	1	30	0	0	0
Carman																									
Cypress River																									
Dauphin																									
Hillview			3	0	0	5	9	6	1	21	7	11	0	93				0.50	0.67	0.30	3	28	0	0	0
Minnedosa			5	2	5	2	2	3	0	2	8	13	27	62				0.23	0.57	0.07	8	23	6	0	0
Morden																		0.21		0.10	3	28	0	0	0
Moose Horn Bay (Aitkensville)					13	4	1	4	13	2	1	3	6	46				0.71		0.25	7	24	6	0	0
Ninga																							1	0	0
Oakbank					9	0	0	[illegible]	6	8	1	7	0	31				0.40	0.13	0.20	3	28	0	0	0
Pipestone																									
Portage la Prairie																		0.03	0.67	0.03	1	30	0	0	0
Portage la Prairie (2)																									
Pierson																									
Stony Mountain					10	4	0	3	20	6	2	17	0	62	2.4	40	11 NW	[illegible]	1.01	[illegible]	0	31	0	0	1
Swan River																									
Treherne																		0.52		0.25	7	24	2	0	0
Virden																									
Winnipeg			5	2	10	0	12	4	3	2	15	15	1	62				0.28	0.67	0.12	7	24	2	0	1
ONTARIO—																									
*Alton			4	1	7	0	11	7	17	8	11	2	0	93	11			2.66	+0.71	1.01	13	18	0	1	2
Aurora																		2.16	+0.23	0.89	7	24	0	0	0
Agincourt					2	1	16	5	11	4	13	41	0	93				1.94	0.32	0.73	11	20	0	1	2
Barrie			5	1	6	5	6	13	13	4	3	32	11	93	11	V	15 NW	2.96	+1.70	0.56	19	12	1	1	1
Beatrice			4	8	3	0	0	9	18	4	2	27	30	93	11	V	15 NW	3.46	+0.41	0.80	11	20	0	0	1
Bruce Mines																		1.50	1.88	0.50	7	24	1	0	0
Birnam					11	1	10	9	11	1	1	15	0	62				3.64	1.00	0.93	13	18	1	1	0
Brantford																		2.21	−0.47	0.81	5	26	0	0	1
Bloomfield																		2.00		0.75	6	25	0	1	0
Bancroft																							0	0	0
Copper Cliff																		0.80		0.20	7	24	0	0	0
Clinton					0	2	5	9	13	4	9	20	0	62				3.00		1.00	15	16	2	1	0
Coldwater																		2.31	0.25	0.65	8	23	0	0	0
Cottam					29	0	8	3	12	6	2	2	0	62				2.33	0.11	0.80	8	23	0	0	0
Chatham																		2.04	0.16	0.88	5	26	0	0	0
Cochrane					0	2	0	3	6	7	3	11	25	60				0.70	—	0.20	5	26	0	0	0
Collingwood																		3.38		1.00	6	25	0	0	0
East Toronto																		1.90		0.61	12	19	0	1	0
Elora																		2.50	+0.42	0.57	15	16	0	1	0
Gravenhurst			4	2	7	2	6	22	12	4	7	21	12	93	2.4	50	16 SW	2.93	+0.42	0.10	13	18	4	0	0
Guelph																		1.25	0.42	0.35	7	24	0	0	0

ONTARIO—*Concluded.*																	
*a*Grimsby	43	13	79	36		29·59	30·20	28·80	1·40	31·1	—	2	59·0	27	4·0	5	15·9
Haileybury	47	29	79	39	687	29·98	30·14	29·41	1·23	20·4	—8·1	18	55·0	26	—15·6	3	22·6
Hamilton	43	16	79	54	303					30·7	—0·3	35	54·0	26-27	5·0	16	14·0
Haliburton	45	1	78	28	1050					20·6	—3·7	22	52·0	26	—18·0	5	27·2
Huntsville	45	19	79	8						21·1	—	4	56·0	26	—18·0	5	23·1
Kenora	49	48	94	32	1102					15·9	—4·5	12	45·0	21	—11·0	4	11·6
Kakabeka Falls	48	29	89	26	912					21·5	—	3	60·0	25	—21·0	3	28·6
Kingston	44	13	76	29	285	30·01	30·67	29·19	1·48	25·8	—1·9	37	49·0	27	—1·0	16	15·5
Kinmount	44	45	78	38	920					18·1	—6·5	12	46·0	27	—21·0	6	26·2
Lucknow	43	56	81	30	908					24·8	—2·8	25	50·2	26	—1·1	7	17·7
Lake Talon	46	15	78	48						20·0	—1·8	16	57·5	26	—20·0	5	24·7
London	42	59	81	13	808	29·97	30·62	29·23	1·39	29·5	+0·7	28	56·5	27	5·0	5-16	18·5
Lakeside Home	43	10	79	24						29·8	—	5	47·0	26-27	1·0	16	13·6
Lorne Park	43	32	79	37						30·7	—	3	57·0	27	6·0	5	18·9
Lindsay	44	20	78	45	872					24·4	—0·4	32	52·7	26	—5·0	16	17·7
Lakefield	44	25	78	15	850					29·2	+3·0	26	54·0	22-27	—5·0	16	23·5
Meaford	44	37	80	37	600												
*Midland	44	44	79	53	750					27·2	—	4	45·0	10-21	—5·0	7-16	
Madoc	44	30	77	29	575					23·6	—	7	49·0	27	—5·0	7	18·6
Montague	44	56	75	57						21·4	—	1	49·0	26	—14·0	4	22·5
Montreal River										15·7	—	1	57·0	26	—22·0	3	30·0
*North Bruce	44	23	81	25						28·1	+0·7	23	55·0	26	3·0	7	—
North Gower	45	8	75	43						—	—	9	—	—	—	—	—
Owen Sound	44	34	80	55	597					28·6	+2·4	33	55·0	26	0·0	5	16·6
Orillia	44	34	79	24	775					24·1	+1·0	19	53·0	26	—5·0	16	19·6
Ottawa	45	26	75	42	294	29·97	30·68	29·14	1·54	21·1	—4·6	28	45·0	26	—7·0	4	18·9
*Ottonabee	44	20	78	18	674					25·8	—0·2	15	50·0	26-27	—2·0	16	—
Port Arthur	48	27	89	12	644	29·94	30·55	29·46	1·09	26·0	+6·9	31	57·0	25	—12·0	15	22·8
Port Stanley	42	40	81	13	592	30·04	30·63	29·29	1·34	29·4	+0·9	37	50·2	20	5·0	16	14·3
Port Dover	42	47	80	13	635					27·6	—1·9	36	47·5	20-26	1·5	16	13·8
Port Burwell	42	39	80	55	592					30·7		8	51·5	20	6·0	16	12·5
Parry Sound	45	19	80	0	635	29·97	30·66	29·30	1·36	23·7	+0·3	31	55·5	26	—10·0	5	19·3
Point Clark	44	5	81	44	595					20·8	—	39	40·0	26	3·0	6 15	16·3
Pelee Island	41	50	82	35	585					32·2	+1·2	32	49·5	19	17·5	3	8·8
Paris	43	12	80	25	840					29·1	—0·7	22	54·0	14	1·0	16	18·3
Peterboro	44	17	78	19	722					24·1	—2·1	11	51·0	27	—9·0	7	18·7
Porcupine										15·1	—	1	58·5	26	—31·2	3	27·3
Ronville	45	15	78	57	1038					17·9	—	4	46·0	26	—21·0	4	24·2
Reofrew	45	26	76	39	416					21·4	—1·5	22	53·0	26	—15·0	5	22·8
Stonecliffe (Rockliffe)	46	9	78	6	557	29·95	30·64	29·27	1·37	19·4	—2·0	34	47·0	10-28	—22·0	5	28·1
Southampton	44	30	81	21	656	30·00	30·65	29·30	1·35	28·1	+0·6	35	56·1	26	—4·5	7	16·6
*Sarnia	42	59	82	24	586					31·6	+1·2	16	53·0	20-26	8·0	5-16	
Stratford	43	23	81	0	1191					26·1	+1·2	45	51·0	28	4·0	16	16·3
Stony Creek	43	13	79	45	292					34·0	+0·5	27	58·0	26	1·0	7	15·9
Schreiber	48	50	87	15						19·0	+1·6	11	50·1	20	—18·8	3	24·4
Shelburne	44	5	80	17						22·8	—	2	47·0	28	—4·5	16	15·6
Toronto	43	40	79	24	350	30·01	30·63	29·26	1·37	30·1	+0·1	70	55·2	27	1·3	16	14·3
Uxbridge	44	5	79	8	886					24·3	—	7	51·0	26	—4·0	16	14·9
Uplands	45	48	79	25						20·2	—2·5	24	52·0	26	—19·5	5	26·8
Ursa	44	54	78	18						19·1	—	4	42·0	27	—18·0	5	15·6
White River	48	35	85	16	1252	29·93	30·52	29·43	1·09	16·6	+3·7	21	48·0	26	—38·0	3	27·3
Woodstock	43	8	80	47	980	30·01	30·63	29·27	1·36	28·0	+3·6	36	54·0	27	—1·0	16	16·7
Welland	42	59	79	17	577					29·8	0·2	25	57·0	26	—1·0	7	16·9
Windsor	42	20	83	4	625					34·1	+1·6	36	58·0	22	8·0	16	15·9
Wallaceburg	42	35	82	21						31·8	—	6	61·0	26	6·0	15	17·1
QUEBEC—																	
Abitibi	48	43	79	22						15·1	—3·1	32	52·0	26	—35·0	3	25·7
*Anticosti, E. Point	49	6	61	42	30					19·5	—0·5	28	36·0	28	—15·0	1	—
*Anticosti, W. Point	49	52	64	32	30					20·9	0·0	31	38·0	27	—6·0	1-5	—
Brome	45	10	72	36	678					19·6	—4·1	30	49·0	27	—19·0	4	20·3
*Bicquet	48	25	68	53													
Clarke City	50	10	66	25						19·8	—	5	46·0	15	—35·0	4	26·8
*Cape Chatte	49	6	66	15													
*Cape Magdalen	49	16	65	20	93					22·0	0·0	29	50·0	28	0·0	7	
Chicoutimi	48	25	71	5	150						—	32					
Chicoutimi (2)										15·4	—	1	46·0	28	—26·0	4	25·1
Disraeli										15·3	—	1	50·5	27	—26·0	3	31·5
Father Point	48	31	68	19	20	29·83	30·63	28·90	1·73	21·7	—0·4	34	48·0	27	—12·0	1	18·3
Lake Edward	47	39	72	15	1333					9·9		1	46·8	27	—37·5	4	29·5
Montreal	45	30	73	35	187	29·95	30·71	28·96	1·75	23·2	—2·7	33	45·3	27	—3·7	16	14·8
Quebec	46	48	71	13	296	29·90	30·71	28·99	1·72	20·0	—3·0	36	43·4	26	—9·0	4	18·7
*Roberval	48	31	72	13	352					3·6		8	23·0	20	—22·0	4	—
St. Anne de Bellevue	45	27	73	59						20·7	—	4	48·0	27	—10·0	5	18·1
Shawinigan Falls	46	34	72	43						14·7	—	8	47·0	26	—22·0	5	24·2

ONTARIO—*Concluded.*																								
*a*Grimsby																		3·07		0·53	13	18	0	0	0
Haileybury					9	0	0	7	10	8	5	14	9	62	1·9	7·0	15NW	1·28	0·97	0·50	11	20	5	0	0
Hamilton																		1·41	—1·73	0·78	4	27	0	0	0
Haliburton																			—	—	—	—	2	1	0
Huntsville																			—	—			0	0	0
Kenora																		—	—	—	—		0	0	0
Kakabeka Falls																		1·10	—	0·30	5	26	2	0	0
Kingston			7	7	6	10	3	9	2	6	11	15	0	62				2·11	+0·14	0·51	17	14	0	0	0
Kinmount																		1·00	—	0·30	5	26	0	1	0
Lucknow																		3·50	+0·92	0·71	19	12	3	1	1
Lake Talon																		1·50	1·11	0·50	6	25	3	0	2
London					0	18	0	37	0	0	16	22	0	93				5·05	+2·23	1·00	17	11	0	0	0
Lakeside Home																							0	0	0
Lorne Park																		1·61		0·67	6	25	0	0	0
Lindsay					7	0	0	12	9	21	2	41	1	93	2·4	3·7		2·15	+0·08	0·57	13	18	1	2	1
Lakefield																		2·93	0·24	0·80	9	22	0	1	0
Meaford																									
*Midland																		0·70		0·30	3	28	0	0	0
Madoc																		3·35		0·60	15	16	1	1	0
Montague																		2·50	+0·65	0·70	6	25	4	0	0
Montreal River																		2·70		0·85	9	22	0	0	0
*North Bruce					5	5	4	13	18	4	13	31	0	93				2·15	0·43	0·43	13	18	0	0	1
North Gower																				—	—		—	—	—
Owen Sound					11	1	0	0	28	5	0	11	0	62				0·80	1·61	0·40	2	29	0	0	0
Orillia					4	0	0	1	7	1	6	6	0	31				0·47		0·40	—		0	0	1
Ottawa					7	8	8	1	1	12	8	14	0	62				2·47	0·06	1·05	14	17	0	0	0
*Ottonabee					7	1	8	8	13	13	36	4	0	93				1·90	—0·21	0·50	8	23	0	0	1
Port Arthur			5	3	7	4	5	4	5	4	10	21	2	62				0·73	—0·22	0·30	5	26	2	0	1
Port Stanley			6	11	7	5	16	3	0	2	16	12	1	62				2·72	0·11	0·50	19	12	0	1	3
Port Dover					5	4	5	4	2	1	7	3	0	31				2·51	0·31	0·74	16	15	1	2	0
Port Burwell																		2·67		0·60	11	17	0	0	0
Parry Sound			5	6	1	4	1	18	6	7	8	15	2	62				3·43	+0·42	0·45	18	13	0	0	1
Point Clark					11	2	1	3	25	6	8	5	0	62				1·90	0·13	0·60	5	26	0	0	0
Pelee Island																		1·08	1·33	0·35	5	26	0	0	0
Paris																		2·40	0·12	0·81	8	23	0	1	0
Peterboro																		1·59	0·50	1·10	7	24	0	1	0
Porcupine																			—				0	0	0
Ronville																							0	0	0
Reofrew																		2·29	—0·25	0·40	12	19	0	0	6
Stonecliffe (Rockliffe)					0	1	6	0	0	0	19	2	34	62				1·20	—0·75	0·46	10	21	1	0	1
Southampton			7	9	11	3	3	7	15	6	6	10	1	62				3·67	—0·85	0·70	19	12	0	1	0
*Sarnia																		0·90	0·87	0·10	4	27	0	0	0
Stratford																		3·29	+0·15	1·00	6	25	0	0	0
Stony Creek			5	6	10	11	6	8	1	23	18	16	0	93	III	VII		1·81	1·20	0·65	6	25	1	0	0
Schreiber																		3·29		0·60	8	23	4	0	1
Shelburne																		2·75		0·61	10	21	0	0	0
Toronto					5	7	10	6	3	7	10	14	0	62				2·05	0·15	0·20	15	16	0	1	1
Uxbridge																		2·39		0·73	12	19	0	1	
Uplands					12	0	4	1	9	0	25	3	8	62				2·60	1·37	0·35	1	[illegible]			
Ursa																		[illegible]		0·54	14	17			
White River					16	1	1	0	10	6	9	1	18	62				[illegible]	[illegible]	[illegible]		[illegible]			
Woodstock		79	7	14	5	5	6	16	6	18	8	29	0	93	12·0	23·0	1 W	2·10	0·47	0·73	13	18	0	0	
Welland																		1·84	1·13	0·45	10	21	0	0	0
Windsor																		1·52	—0·96	0·62	6	25	0	0	0
Wallaceburg																		1·56		0·40	12	19	0	0	0
QUEBEC—																									
Abitibi			5	6	16	5	7	1	27	5	22	10	0	93	III	VI	15 N	1·00	—2·18	0·30	6	25	0	0	0
*Anticosti, E. Point					19	2	2	5	8	23	8	19	7	93				1·54	—	0·60	4	27	0	0	4
*Anticosti, W. Point					21	1	7	5	28	2	7	22	0	93				1·72	—1·10	0·60	7	24	0	0	2
Brome					9	1	8	1	11	6	50	3	4	93				3·00	—1·18	1·20	7	24	0	0	0
*Bicquet																									
Clarke City					1	4	10	1	0	4	4	7	0	31				3·36		0·70	10	21	0		
*Cape Chatte							3																		
*Cape Magdalen					1	1	0	9	9	6	1	15	18	93				0·52	2·66	0·15	10	21	0	0	0
Chicoutimi			6	5	0	0		42	0	51	0	0	0	93	IV	VIII	15SE	[illegible]	0·74	0·10	4	27	2	0	
Chicoutimi (2)																							0		
Disraeli							4											2·76		0·70	11	20	0		
Father Point			6	5	6	2		1	11	12	9	14	3	62				1·58	1·31	0·40	14	17	2		
Lake Edward							4											0·90		0·35	5	26	0		
Montreal			5	8	2	2	1	5	9	25	9	6	0	62				3·61	0·29	1·00	16	15	0		
Quebec			6	12	0	11	0	0	1	21	21	6	1	62				2·97	0·29	0·51	16	15	[illegible]	0	0
*Roberval					9	26		6	0	16	6	18	0	81									0	0	
St. Anne de Bellevue																		2·86		1·15	4	27	0		
Shawinigan Falls																							0	0	

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MARCH, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION	Latitude N	Longitude W	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest days velocity.	Date and direction from	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .1 or more.	No. of fair days.	No. of cloudless days.	No. of foggy.
QUEBEC. *Concluded.*																																								
Sherbrooke	45	32	772					19																																
Shawbridge	45	51	774																																					
NEW BRUNSWICK.																																							
Chatham	47	3	65	29	30	30	71	29	16	1																														
Dalhousie	48	4	66																																					
Fredericton	45	57	181	29	92	30	73	29	15	1																														
Grand Manan	44	47	66	29	90	30	63	29	08	1																														
Moncton	46	9	61																																					
*Point Lepreaux	45	4	68																																					
St. John	45	17	66	29	91	30	70	29	20	1																														
St. Stephen	45	11	67																																					
Sussex	45	38	65																																					
NOVA SCOTIA.																																							
Antigonish	45	38	61																																					
Halifax	44	39	63	29	92	30	70	29	16	1																														
Port Hastings	45	30	61																																					
Parrsboro	45	23	61																																					
Sydney	46	10	60	29	92	30	59	29	02	1																														
*Sable Island, E. Point	43	58	30																																					
Truro	45	22	63																																					
Windsor	44	59	61																																					
*Whitehead	45	15	61																																					
*a*Wolfville	45	7	61	29	88	30	58	29	26	1																														
Yarmouth	43	50	66	29	91	30	63	29	23	1																														
P. E. ISLAND.																																							
Charlottetown	46	14	63	29	90	30	61	29	21	1																														
Charlottetown (2)	46	14	63																																					
Hamilton	46	25	63																																					
NEWFOUNDLAND.																																							
*Amour Point	51	28	26					13	6				1	5																										
Burin	47	0	55	27																																				
*Cape Norman	51	38	55					11	8																															
Fogo	49	43	54																																					
*Point Rich.	50	42	57																																					
Port aux Basque	47	59	59																																					
St. John's	47	31	52	29	81	30	45	28	91	1																														
BERMUDA.																																							
Prospect	32	17	61	30	151	30	11	30	52	29	78	0	71	69	2																									

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING MARCH, 1911.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake.										
Annis	1 27	9	22	0 42	23					
Beaver Lake	1 62	6	25	0 75	23					
Coquitlam	5 14	7	24	2 21	23					
Denman's Island	0 69	4	25	0 29	23					
Ferguson	0 15	2	22	0 41	23	30 5	7	7 5	24	
Goldstream Lake	3 81	9	22	1 62	24					
Grand Forks	0 11	2	28	0 06	7	1 0	1	1 0	1	
Hydraulic										
Hornby Island	0 36	3	25	0 30	7					
Jordan River	3 90	11	20	1 10	24					
Jordan River (Bear Creek).	1 80	10	18	1 11	9	7 9	3	5 4	25	
LittleQualicum (French Creek, V.I.)	0 15	4	27	0 18	23					
Monte Creek	0 28	1	30	0 28	25					
Naas Harbour										
Skidegate	4 60	16	15	0 89	12					
ALBERTA—										
Bardo						1 0	1	1 0	7	
Bismark	0 46	1	27	0 16	28	3 3	3	1 2	11	
Bruederheim	0 10	3	24	0 04	24 28	3 0	4	1 0	2 13	
Bittern Lake	0 21	3	26			1 0	2	0 5	2 11	
Bantry										
Brooks	0 13	2	28	0 08	29	1 5	1	1 5	3	
Conjuring Creek										
Coutts										
Campsie	0 13	2	24	0 12	28	3 0	3	1 0	3	Aurora on 1, 2.
Caldwell						6 5	6	6 0	25	Fog on 14, 21
Dorenlee	0 35	1	29	0 35	30	1 0	1	1 0	2	
Elkwater										
Grassy Lake						2 0	2	1 0	3 31	
Jumping Pound						6 5	5	2 5	31	
Lacombe	0 34	1	27	0 34	28	9 5	3	1 5	31	
Langdon										
Loch Sloy						8 0	10	2 0	31	Aurora on 26.
Lyndon						5 5	3	1 4	31	
Lincham						1 8	2	1 3	31	
Macleod						1 0	1	1 0	31	
Minda (Many Berries Ranch)						1 5	2	1 3	30	
Mayeroft	0 25	5	23	0 09	10	2 0	3	1 0	11	Fog on 14, 21.
Mayton										
Okotoks						3 2	4	2 0	30	
Ponoka	0 30	1	28	0 30	27	1 4	2	1 0	29	
Sion	0 10	2	19	0 08	23	13 0	10	3 0	30	Aurora on 1, 16, 17, 18, 19, 20, 21, 24, 28.
Seven Persons										
Tilley										
Wabamum										
SASKATCHEWAN—										
Carmichael						5 5	2	3 5	1	
Coulee										
Elm How						1 0	2	0 5	29 30	
Forks Swift Current (Gull Lake)	0 02	1	30	0 02	30					
Gull Lake						3 3	3	1 5	2	
Hanley										
Kindersley										
Kelvinhurst	0 00					0 0				
Last Mountain										
Maple Creek	0 02	1	21	0 02	31	2 8	6	1 5	3	
Willow Creek	0 00					0 0				
MANITOBA—										
Cartwright	0 60	2	26	0 50	29	2 5	3	2 0	16	Aurora on 19, 20, 21, 24, 26.
Deloraine										
Gretna						0 5	1	0 5	18	
Norquay						2 8	4	1 0	1	
Rapid City						2 4	6	0 6	16	Aurora on 19, 20, 28.
ONTARIO—										
Arden										
Deer Park	1 20	3	23	0 61	27	4 3	5	1 3	17 29	
Dutton	0 80	3	24	0 50	26	8 0	4	4 0	29	
Emsdale	0 52	3	17	0 29	28	20 3	11	4 5	22	Aurora on 23, 24, 25, 28.
Goderich	0 80	3	18	0 30	9 27	33 0	10	9 0	15	
Georgetown	1 67	5	15	0 79	27	9 2	11	2 2	6	Aurora on 30, Thunder on 11
Grantham	1 05	5	18	0 52	10	13 3	8	5 0	3	
Grand Valley	1 25	5	15	0 40	28	13 5	11	2 5	6 31	
MacCue	0 63	3	22	0 33	27	11 0	6	5 0	22	
Orangeville	0 76	2	21	0 54	27	11 9	8	5 1	6	
Princeton	1 22	3	23	0 45	27	11 5	5	4 0	18 30	
Sydenham	0 35	1	26	0 35	11	9 5	4	3 0	31	
Strathroy	1 29	3	22	0 63	27	12 5	6	4 0	15 30	
Watford	2 25	7	24	0 75	27					
Westport	0 50	2	22	0 25	20 27	15 3	7	3 0	22	Thunder on 20, 27.
Wooler	1 60	3	24	0 73	27	9 0	4	3 0	17 30	
Westminster	0 77	3	24	0 45	27	10 0	4	3 0	5 31	
Wiarton	1 66	5	22	0 50	27	11 5	4	5 0	5	Thunder on 11.
Wesley	1 62	6	14	0 62	10	16 5	11	4 0	6	
QUEBEC—										
Timiskaming	1 53	6	25	0 60	27					
Kipawa										
Quinze Dam	0 90	1	22	0 90	27	16 5	8	3 3	22	
NEW BRUNSWICK—										
Point Escuminac	0 34	3	23	0 17	28	19 2	5	9 7	23	

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF MARCH, 1911.

STATIONS.	Hour ending [illegible]	[illegible] a.m.	[illegible] a.m.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6 p.m.	[illegible] p.m.
Victoria		36	40	47	[illegible]	61	61	73	74	60	[illegible]	11	
Nanaimo		32	[illegible]	58	61	63	66	66	59		41	07	
Vancouver		11	41	[illegible]	48	51	62	65	58	[illegible]	41	08	
Agassiz		15	48	[illegible]	52	[illegible]	61	[illegible]	[illegible]	[illegible]	31	05	
Tranquille		26	[illegible]	66	65	66	66	[illegible]	68	62		08	
Summerland	[illegible]	60	[illegible]	67	[illegible]	69	66	53	[illegible]	[illegible]	58	02	
Kamloops		39	63	70	66	73	67	68	71	[illegible]	[illegible]	01	
Edmonton	8	38	58	61	65	[illegible]	71	72	66	[illegible]	45	02	
Lethbridge	4	41	60	63	62	58	66	65	[illegible]	[illegible]	51		
Lacombe	2	24	41	66	65	[illegible]	[illegible]	65	65	[illegible]		02	
Medicine Hat		27	40	57	63	66	68	61	57	41	22		
Fort Vermilion		16	56	61	62	66	61	58	54	42	22		
Battleford		11	50	57	63	66	70	71	62	59	[illegible]	16	
Indian Head		24	47	65	70	73	71	67	68	65	[illegible]		
Moosejaw	10	43	64	73	65	66	69	66	57	65	18	05	
Rosthern	03	33	47	[illegible]	69	67	72	69	65	65	57	04	
Brandon	05	31	[illegible]	66	71	67	65	67	65	54	[illegible]	15	02
Winnipeg	02	22	32	52	54	61	65	72	73	60	[illegible]	05	
Haileybury	19	45	[illegible]	[illegible]	61	59	61	63	64	[illegible]	51	22	
Woodstock		30	45	42	41	51	52	51	48	45	27	07	
Lindsay	01	09	37	51	[illegible]	54	57	56	[illegible]	46	37	24	
Barrie	13	36	46	54	[illegible]	[illegible]	54	[illegible]	53	51	35	05	
Toronto		18	48	56	59	[illegible]	61	65	57	48	40	07	
Kingston	13	36	54	[illegible]	57	57	56	54	[illegible]	46	32	14	
Ottawa	19	44	53	[illegible]	63	70	58	59	57	[illegible]	30		
Montreal	03	26	46	[illegible]	49	48	48	47	39	[illegible]	[illegible]	01	
Quebec	06	31	45	53	58	[illegible]	[illegible]	58	54	51	42	04	
Sherbrooke	10	39	50	58	61	60	55	60	45	42	58	06	
Fredericton	08	16	35	[illegible]	58	61	60	60	65	58	46	17	
Charlottetown	03	29	39	43	[illegible]	58	59	61	61	[illegible]	40	03	
Dunvegan, Alta	03	17	32	43	56	51	47	43	40	35	20		

	Victoria.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.
Registered duration in hours	182	172	154	144	[illegible]	207	194	191	160	168	166
Percentage of possible duration	49	47	42	39	[illegible]	[illegible]	52	52	44	46	45
Difference from average	11			-14							
Maximum percentage in one day	88	89	84	84	84	88	85	87	79	87	83
Date of maximum	16	1	1	1	7	[illegible]	3	1	1	19	1
No. of days completely clouded	4	4	3	[illegible]	4	3	5	9	3	1	1

	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.
Registered duration in hours	151	146	179	158	[illegible]	187	173	187	[illegible]	[illegible]
Percentage of possible duration	41	42	49	54	50	51	47	51	[illegible]	[illegible]
Difference from average			15			8	-2		[illegible]	-2
Maximum percentage in one day	74	77	82	86	85	91	85	[illegible]	52	[illegible]
Date of maximum	4	12	13	18	14	26	31	13	13	21
No. of days completely clouded	1	1	2	1	2	2	8	6	5	6

	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottet'wn.	Dunvegan.
Registered duration in hours	158	161	161	189	224	120	163	155	157	120
Percentage of possible duration	43	43	43	51	37	42	44	50	43	33
Difference from average	-5	-9	-16	-25	8	-2		3		
Maximum percentage in one day	89	86	93	93	100	91	93	97	91	76
Date of maximum	24	13	6	24	24	11	13	5	1	16
No. of days completely clouded	5	1	5	8	6	5	6	6	3	[illegible]

Aurora recorded :

Where the class of aurora is noted by the observer, it is given (I), being the brightest, (IV) the feeblest in brilliancy.

1. Sion, III ; Campsie, I; Pembina; Fort St. James.
2. Campsie, III ; Montague; Fort Vermilion.
3. Waitefield, II; Aitkensville, IV; Schreiber, IV; Quebec, IV; Haileybury, IV.
4. Melfort, IV; Prince, IV; Montague, Quebec, IV; Dawson, IV ; Lake Talon.
5. Pembina, Oliver, Aitkensville, IV; Fort Vermilion.
6. Alix.
12. Prince, IV.
14. Sion.
15. Pembina, Prince, II ; Spirit River.
16. Sion; Fort Vermilion ; Spirit River.
17. Sion, Oliver, Prince, IV; Waitefield, IV; Fort Vermilion ; Spirit River.
18. Sion, Prince, II ; Spirit River.
19. Sion, Cartwright, II ; Rapid City, I ; Chilcoten I ; Chilliwack, III; Okanagan Mission, Princeton, III ; Salmon Arm, Foxleigh, Summerland, Hillsdown, IV; Halkirk, Threehills Creek, II; Waitefield, III; Esterhazy, III ; Chaplin, IV; Esteven, II ; Oliver, Glenbryan, I ; Melfort, IV; Muenster, IV; Pense, III; Brandon, Treherne, IV; Aweme, III; Lucknow, IV; Kakabeka Falls, II; Clinton, III; Winnipeg, I ; Crescent Lake II ; Bontin III ; Spirit River ; Barrie, IV.
20. Loch Sloy, Sion, III; Cartwright, III; Rapid City, I; Georgetown, III; Esterhazy, III ; Chaplin, IV; Glenbryan, I; Muenster, IV; Oliver, Treherne, IV; Aweme, IV; Schreiber, IV; Lucknow, IV; Kakabeka Falls, III; Haliburton, Clinton, III ; Minnedosa, I ; Grand Manan, IV; Fort Vermilion, Gravenhurst, III; Haileybury, III ; Crescent Lake IV.
21. Sion, III; Cartwright, IV; Summerland, Hillsdown, IV ; Halkirk, Pembina, Pakan IV; Threehills Creek, IV; Waitefield, II; Foxleigh, Brownlee, Chaplin, IV; Grenfell, II; Glenbryan, I; Melfort, IV; Muenster, II; Oliver, Prince, I; Aweme, II; Birnam, III; Port Arthur, II; Minnedosa, IV; Quebec, III; Father Point, II; Grand Manan, IV; Fort Vermilion ; Crescent Lake IV; Bontin II
22. Hillsdown, IV; Halkirk, Pembina, Threehills Creek, IV; Chaplin, IV; Oliver, Aweme, IV.
23. Emsdale, III; Melfort, IV; Oliver, Prince, IV; Pense, III; Aitkensville, IV; Aweme, III; Montague, Quebec, IV; Father Point, III; Dawson, IV; Fort Vermilion, Gravenhurst, IV; Haileybury, III ; Crescent Lake IV ; Lake Talon.
24. Sion, III ; Cartwright, IV ; Emsdale, IV ; Waitefield, II; Esterhazy, III; Melfort, IV ; Muenster, II; Oliver, Quebec, IV; Aitkensville, II; Aweme, III; Stony Creek, II; Port Dover, IV; Montague, Madoc, III; Lucknow, IV; Haliburton, Minnedosa, II; Bruce Mines, IV ; Chicoutimi, Grand Manan, IV; Dawson, IV; Fort Vermilion, Gravenhurst, II ; Crescent Lake III ; Deloraine ; Lake Talon IV.
25. Emsdale, III; Glenbryan, II; Melfort, IV; Muenster, IV; Oliver, Schreiber, IV; Minnedosa, I; Fairview (brilliant), Fort Vermilion ; Crescent Lake III ; Bontin III.
26. Cartwright, IV; Chilliwaek, II; Threehills Creek, III; Esterhazy, II; Esteven, IV; Muenster, III; Aitkensville, IV; Chicoutimi, Winnipeg, II; Minnedosa, IV; Grand Manan, IV; Dawson, IV; Fort St. James ; Bontin II.
27. Chilcoten, II; Summerland, Threehills Creek, IV; Glenbryan, I; Prince, IV; Aitkensville, III; Schreiber, IV; Minnedosa, I; Dawson, IV ; Crescent Lake III.
28. Sion, II; Rapid City, II; Emsdale, IV; Esterhazy, III; Muenster, IV; Aweme, II; Port Arthur, I; Stonecliffe, II; Fort Vermilion, Gravenhurst, IV; Haileybury, II.
29. Muenster, IV; Haileybury, IV ; Ninga ; Bontin IV.
30. Dawson, IV.
31. Dawson, IV.

Thunder recorded :

10. Port Stanley.
11. Wiarton, Georgetown, Agincourt, Point Clark, Peterboro', Paris, Midland, Lakefield, Lucknow, Kinmount, Haliburton, Elora, East Toronto, Toronto, Southampton ; Barrie.
20. Westport.
21. Georgetown.
27. Wooler, Westport, Madoc, Clinton, Bloomfield, Birnam.
30. Windsor, N.S.
31. Wolfville, N.S.

FORECASTS FOR MARCH, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1222. These were divided as follows:

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per centage.
Alberta	81	64	14	2	88 3
Saskatchewan	82	68	12	2	90 2
Manitoba	82	69	10	3	90 2
Lake Superior	94	77	11	3	89 4
Lower Lake Region	110	89	17	4	88 6
Georgian Bay	108	79	21	8	82 9
Ottawa Valley	104	78	16	10	82 7
Upper St. Lawrence	114	82	14	8	85 6
Lower St. Lawrence	107	83	16	8	85 0
Gulf	108	86	13	6	87 0
Maritime Provinces West	121	95	20	6	86 8
Maritime Provinces East	121	92	21	8	84 7
Total	1222	962	192	68	86 6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
May, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. APRIL, 1911. No. 4.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

The month began with very cool weather in British Columbia, especially in the Cariboo district, where temperatures below zero were registered on the 3rd. Snow fell during the first two weeks on one to three days in the more northerly latitudes and on the higher levels. The latter part of the month was much warmer, maximum temperatures ranging between 70° and 80° during the last week. The precipitation was very much less than normal on the coast and exceeded the average at very few points in the interior, except in the Cariboo district, where the excess was small.

In Alberta temperatures on the first day of the month were at the freezing point or nearly so, but decreased to zero on the third day, and to 10° to 20° below zero on subsequent days, until the 8th. A milder period intervened till the 13th and 14th, when temperatures were again zero or nearly so. From the 16th to the end of the month more seasonal weather obtained, the highest readings of the month, ranging from 75° to 80°, being registered between the 21st and 25th. In the foot-hills of the Rockies, in the southwestern portion of the province, the precipitation was in excess of normal by about one-third, but elsewhere in Alberta there was a deficiency, rain or snow falling on but two days in many districts.

Temperature conditions in southwestern Saskatchewan were very similar to those which obtained in Alberta, but in the northern and eastern portions of the province the latter part of the month was much warmer while the first few days were not so severely cold, many places registering no temperatures below zero during the month. Precipitation was in excess of the normal amount in the central and southwestern districts but elsewhere was deficient.

Milder weather was experienced in Manitoba than in the other western provinces. The only cold period occurred during the first week, the lowest temperature, about 3°, being registered on the 3rd. After the 7th the temperature rose from the freezing point to 50° on the 9th and to 60° on the 11th. The remainder of the month was generally moderately warm, but on the 13th and 14th the temperature fell to zero, and a heavy fall of snow occurred in may districts, disappearing from the ground, however, in a few hours. On the 27th, 28th and 29th, maximum temperatures of 80° and higher, were registered.

The weather of the month was generally cool in Ontario, although no severe frosts occurred in southern Ontario after the first few days. In the Lake Superior districts and in the Porcupine country temperatures below zero were registered early in the first week, but the remainder of the month was free from cold periods. In the northern portions of the province snow fell towards the close of the first week, while showers occurred frequently in the southern counties. During the last week maxima temperatures exceeded 70° everywhere, and in northern and northeastern Ontario reached or exceeded 80°. In the counties of the extreme southwest, where showery weather was of very frequent occurrence during the month, the normal amount of precipitation was well exceeded, but elsewhere in the province there was a general deficiency.

Cool weather with little precipitation prevailed in Quebec province during the greater part of the month. Temperatures of 55° to 60° were recorded in some places about the 13th and 14th, but it

was generally much cooler until the last three days of the month, when 75° to 80° were registered. The deficiency of precipitation amounted to from one-third to one-half of the normal fall.

The weather was not seasonal in the Maritime Provinces, but was in fact almost wintry during the greater part of the month. As late as the third week temperatures did not exceed 35°, while snow fell to a considerable depth on the 5th, 9th, 21st and 22nd. On the last three days of the month, however, bright warm conditions were experienced, maximum temperatures exceeding 80° at many points.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for April exceeded the normal throughout Canada, except from Eastern Alberta to the Rainy River District of Ontario, where the average was not reached.

From Lake Huron to the Maritime Provinces, positive differences were large, being generally more than 0·1 of an inch. The range of departure from average was 0·19 of an inch, the extremes being −0·05 of an inch at Minnedosa, Man., and 0·14 of an inch at Kingston, Ont. and St. John, N.B.

HIGH AREAS.

Six areas of high pressure were charted, one first appeared in the Yukon Territory, one in Northern Manitoba, three on the United States Pacific Coast and one in the Missouri Valley. The area from the Yukon was very important, assuming practically the winter type of system. It travelled over Canada far to the northward, ultimately drawing southward into the Lower St. Lawrence Valley and the Maritime Provinces, thence across Newfoundland. The remaining five systems were of the usual early spring type of areas, their paths being over the Great Lakes, thence southeastwards and off the Atlantic Coast.

LOW AREAS.

Thirteen areas of low pressure were charted. Two first appeared on the Alaskan coast; two in the interior of British Columbia; two in the West Pacific States; three in the South Pacific States; two in the far Southwest States and two off the Atlantic Coast. The Atlantic depressions each caused gales in Newfoundland, but the continental areas were for the most part feeble rather than energetic, being only occasionally accompanied by much unsettled weather.

WINDS, APRIL, 1911.

PROVINCE AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
BRITISH COLUMBIA.							
Victoria	6805	189	30	2	10	7	W.
Triangle Island	9263	523	75	5	6	8	N.W.
ALBERTA.							
Edmonton	5808	304	23	0	1	12	N.W.
*Sulphur Mt., Banff	11758	716	39	6	10	6	S.W.
SASKATCHEWAN.							
Qu'Appelle	4564	320	22	0	2	9	S.W.
MANITOBA.							
Winnipeg	9 09	520	19	1	7	10	N. & N.W.
ONTARIO.							
Parry Sound	5580	126	53	1	1	11	S.W.
Port Arthur	7472	525	55	2	3	12	E. & N.
Woodstock	7116	170	32	1	1	15	N.W.
Toronto	9112	606	36	3	1	14	N. & N.W.
QUEBEC.							
Montreal	9842	590	26	1	12	11	S. to W.
Quebec	9241	648	26	3	11	8	N.E.
Father Point	11592	854	16	10	9	3	W.
MARITIME PROVINCES.							
Pt. Escuminac	11559	750	43	6	10	11	S.E.
Pt. Lepreaux	9042	693	45	3	15	7	N.W.
St. John	8418	565	50	0	15	7	N.W.
Halifax	9041	622	40	2	11	9	N.E.
Flat Pt.	10047	727	35	5	14	5	N.

*For 23 days only.

TEMPERATURE.

On Vancouver Island, the coast and the lower mainland of British Columbia the mean temperature of the month was below normal by from 2° to 4°, while in the Cariboo district the deficiency amounted to 6°. In Alberta the mean temperature was also less than average by 2° in the northern portion and by 3° to 4° in the southern. In northern and eastern Saskatchewan the normal was exceeded by 1° in the north and by 2° in the eastern-central districts. In southwestern Saskatchewan, however, there was a deficiency of 2° to 3°. The weather of the month was warmer than usual in Manitoba by from 1° in the west to 3° in the most easterly districts.

Differences from normal varied greatly in Ontario. In the Lake Superior districts and generally in southwestern counties the mean was either normal or a little less. In those counties lying between the Georgian Bay and the Upper St. Lawrence there was a small excess over average temperature. In the Ottawa Valley, however, the month was very cool, with a mean 4° below normal.

In Upper Quebec there was a deficiency of about 1°, but in Lower Quebec normal conditions obtained.

In the Maritime Provinces the mean temperature was generally 2° below normal.

The highest and lowest temperatures recorded in each Province during the month of April, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	83° at Enderby on the 29th.	—21° at Fort St. James on the 4th.
Alberta,	80° at Medicine Hat on the 21st,	—25° at Eckville on the 4th.
Saskatchewan,	85° at Muenster on the 26th.	—12° at File Hills on the 6th.
Manitoba,	85° at Morden on the 28th,	—15° at Berens River on the 1st.
Ontario,	85° at Midland on the 28th.	—16° at White River on the 1st.
Quebec,	82° at Chicoutimi on the 27th. and at Shawinigan Falls on the 30th.	—26° at Lake Edward on the 2nd.
New Brunswick,	82° at St. Stephen on the 20th	7° at Chatham on the 3rd.
Nova Scotia,	79° at Halifax on the 29th.	7° at Truro on the 12th.
P. E. Island,	75° at Charlottetown on the 28th.	9° at Charlottetown on the 3rd.

PRECIPITATION.

More than normal precipitation occurred in the Cariboo district of British Columbia, southwestern and central Saskatchewan, eastern Manitoba, and southwestern Ontario. Elsewhere in the Dominion there was a deficiency.

BRIGHT SUNSHINE.

The amount of bright sunshine registered during the month of April was in excess of average in British Columbia, Alberta, eastern Saskatchewan, Manitoba, the Ottawa Valley, Quebec and the Maritime Provinces; but was deficient in northwestern Saskatchewan, and over the greater part of Ontario. In the western provinces the excess was very pronounced.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. APRIL, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more	No. of fair days.	No. of auroras.	No. of thunderstorms.	No. of fogs.
BRITISH COLUMBIA	° ′	° ′		in.	in.	in.	in.																																	
Alberni (Beaver Creek)	49 15	124 49	300					44.3	4.0	16	73.0	29, 30	23.0	4	20.3																		[illegible]	[illegible]						
Agassiz	49 14	121 31	52					47.1	2.2	19	75.0	30	26.0	6	26.1																		2.48	1.67	0.81	9	21	0	0	0
Atlin	59 35	133 38	2240	29.98	30.73	29.39	1.34	26.1		6	53.0	30	12.0	3	17.6			7	1	3	1	1	6	22	1	3	7	13	60	5.0	14.0	13 S	0.10		0.03	4	26	0	0	0
Barkerville	53 2	121 35	4180	29.94	30.46	29.21	1.25	28.7	6.7	21	56.0	30	8.0	4	18.2			5	5	0	0	0	0	5	6	5	1	43	60	2.6	10.0	13 S	2.07	−0.11	1.00	8	22	0	0	0
Bella Coola	52 40	126 54	150					40.1	3.6	12	71.0	30	15.0	3	32.7																		1.03	−0.76	0.22	10	20	1	0	0
Babine Lake	55 38	126 26																																						
Boswell								43.2		4	65.5	21	27.0	13	20.0																		0.17		0.20	4	26	0	0	0
Chilcotin (Big Creek)	51 40	123 0	3100					34.9		8	68.0	30	6.0	4	29.1																		0.43		0.28	3	27	1	0	0
Cranbrook	49 30	115 50						41.8		2	79.0	25	15.0	4, 5	35.2																		[illegible]		[illegible]	3	27	0	0	0
Clayoquot	49 11	125 47	40					43.2	2.2	12	62.0	23	26.0	4	21.8																		[illegible]	[illegible]	[illegible]	9	21			
Cowichan (Tzouhalem)	48 25	123 42	170					45.0		5	68.8	30	26.5	5	23.2																		1.14		[illegible]	6	24			
Chilliwack	49 10	121 57	21					46.6	3.5	12	75.0	30	27.0	8	22.1																		2.06	1.50	0.91	11	19	0		
Enderby	50 32	119 7	1180					43.7	2.7	10	83.0	29	16.0	4	31.3																		0.42	[illegible]	0.13	[illegible]	[illegible]			
Fort St. James (Stuart's Lake)	54 28	124 12	2280					30.7	4.1	18	59.0	30	21.0	4	23.6																		1.68	[illegible]	0.46	[illegible]	[illegible]			
Fairview	49 11	119 36						51.9		2	71.0	4, 26	32.0	8	25.3																		0.18		0.10	2	28	0		
Fruitvale	49 9	117 31						43.7		2	75.0	24	20.0	14	29.2																		0.81		0.51	[illegible]	[illegible]	0		0
Glacier	51 14	117 29	4072					31.5	4.0	14	52.0	25	3.0	5	15.1																		4.15	1.15	[illegible]	10	20	0	1	
Golden	51 16	116 55	2550					35.7	6.4	10	63.0	30	11.0	4	21.6																		0.40	0.20	[illegible]	2	28	0		0
Grand Forks								45.2		1	78.0	24	20.0	4	29.5																		[illegible]		[illegible]	[illegible]	[illegible]	0		
Holberg	50 39	128 18						39.5		3	55.5	29	27.0	4	12.1																		[illegible]		0.61	16	14	0	0	0
Hedley	49 35	120 10						44.7		8	75.0	23	20.0	3	26.7																		[illegible]		0.07	2	28	0	0	
Hedley (Nickel Plate)								24.1		9	52.0	30	3.0	3	20.7																		1.40		0.40	7	23	0	0	0
Hope	49 23	121 25						47.7		2	81.0	30	27.0	26	20.8																		1.87		0.63	[illegible]	[illegible]	0	0	0
Ikeda Bay	52 17	131 7	[illegible]																																					
Kamloops	50 41	120 29	1245	29.94	30.55	29.32	1.23	45.7	1.2	19	73.0	30	19.0	4	25.7		69	5	3	0	3	8	6	2	10	17	7	7	60	6.7	17.0		0.11	0.22	0.11	1	29	0	0	0
Ladner	49 5	123 4						45.1	1.3	11	66.0	15	28.0	5, 13	21.6																		1.06	0.77	0.40	4	26	0	0	0
Massett, Q.C.I.	53 58	132 9	30					39.8	6.0	14	51.0	26, 29	22.0	3	12.1																		3.78	[illegible]	[illegible]	12	18	0	0	0
a Nanaimo	49 10	123 37	125	29.96	30.45	29.35	1.10	44.0	2.5	12	66.1	30	[illegible]	3	20.5		85	3	2	1	3	5	6	0	2	8	16	19	60	10.5	38.0		1.12		[illegible]	6	24	0	0	0
Nicola Lake	50 9	120 30	2120					40.7	3.0	16	71.0	25	14.0	4	25.6																		0.35	0.18	[illegible]	[illegible]	27	0	0	
North Nicomen	49 12	122 2	59					45.7	3.0	19	74.0	30	27.0	5	22.1																		2.97	[illegible]	1.11	6	24	0	0	
New Westminster	49 13	122 54	330					45.1	3.3	23	72.9	30	27.8	13	20.6																		[illegible]	0.88	[illegible]	6	24	0		
Nelson	49 29	117 21	1760					44.7		8	72.0	24	19.0	5	27.6																		0.76	[illegible]	0.20	[illegible]	[illegible]	0		
Needles								45.9		2	70.0	22	25.0	7-13	23.7																		[illegible]		[illegible]	[illegible]	27	0	0	0
Okanagan Mission (Kelowna)	49 52	119 29	1200					44.8	1.7	12	76.0	30	19.0	4	26.4																		0.20	[illegible]	[illegible]	1	29	0	0	
Princeton	49 29	120 29	1650					41.4	2.7	25	74.0	24	16.0	13	32.2																		[illegible]		[illegible]	[illegible]	[illegible]	0		
*Penticton	49 29	119 35						44.9		4	77.5	24	21.0	13	25.2																		0.21	[illegible]	0.11	4	26	0	0	0
Pemberton Hatchery	50 20	122 33						43.5		3	71.0	30	23.0	4, 7	25.5																		0.73		0.78	5	25	0	0	0
Prince Rupert	54 18	130 18	170	30.06	30.40	29.35	1.05	38.1		2	63.0	30	19.5	3, 4	11.9		82	7	16	6	9	8	9	8	11	1	2	6	60	5.4	16.0	1 SE	8.64		1.44	16	14	0	0	0
Quesnelle	52 59	122 30	1700					37.0	5.8	16	72.0	21, 22	4.0	4	28.8																		0.43	0.13	[illegible]	1	29	0	1	
Revelstoke	51 0	118 6	1476					41.1	1.6	11	69.0	23	20.0	4	28.5																		0.83	1.18	[illegible]	5	25	0	0	0
Rossland	49 5	117 48	3400					42.1		7	70.0	24	20.5	5	20.2																		1.13		0.48	4	26	0	0	0
Ruskin (Stave Falls)	49 16	122 23	125					48.2		2	76.0	30	28.0	4	28.6																		[illegible]		1.10	5	25	0	0	0
Salmon Arm	50 42	119 35	1152					44.6	1.5	10	73.0	30	22.0	4, 6	26.7																		[illegible]	[illegible]	[illegible]	4	[illegible]	0	0	1
Steveston (Garry Point)	49 21	123 17						43.1	3.2	16	58.0	29, 30	27.0	13	17.4																		1.46	[illegible]	1.07	7	23	0	0	0
Swanson Bay	50 37	126 53						37.1		2	57.0	30	15.0	3	13.3																		8.01		[illegible]	16	14	0	0	0
Salt Spring Island	48 50	123 29																																						
Summerland	49 57	119 0	1400					44.9		4	74.0	24	20.0	4	23.4																		0.06		0.04	2	28	0	0	0
Sooke	48 44	123 44	25					44.6		1	64.0	24	28.0	7, 12	21.5																		0.70		[illegible]	6	24	0	0	0
Stewart	56 1	130 1	215					34.1		1	54.0	29	11.0	3	12.1																		[illegible]		[illegible]	11	19	0	0	0
Tobacco Plains (Elko)	49 1	115 5	2681					45.1	0.1	16	71.1	22, 25	21.0	4, 6	22.4																		0.47	[illegible]	0.27	2	28	0	0	0
Triangle Island	50 52	129 5	680																																					
a Tranquille	50 41	120 29		28.82	29.26	28.18	1.08	45.3		3	76.0	30	17.0	4	26.7		63	3	0	6	10	12	4	1	9	3	15	0	60				0.05		0.05	1	29	0	0	0
Vernon (Coldstream Ranch)	50 14	119 15	1575					44.5	−1.0	17	73.0	24	19.0	5	25.5																		0.16	[illegible]	[illegible]	3	27	0	0	0
Victoria	48 24	123 19	85	30.05	30.51	29.48	1.06	45.5	3.4	23	66.8	23	27.7	13	18.5		67	1	0	7	1	2	3	5	22	8	9	3	60	10.2	30.0	6 SW	[illegible]	1.21	0.51	4	26	0	0	0
Vancouver	49 17	123 5	136	30.06	30.57	29.51	1.06	44.9	−1.4	11	66.7	15	28.9	5	17.9		71	1	1	2	1	5	6	3	9	8	9	17	60	4.1	14.0	11 SE	[illegible]	[illegible]	[illegible]	8	22	0	0	0
Winter Harbour	50 32	128 3						41.0		1	58.0	23	27.0	4	15.7																		3.09		0.72	14	16	0	0	0
Wilmer	50 34	116 11						42.3		2	76.0	21	14.0	5	31.3																		0.35		0.20	3	27	0	0	

YUKON :—																																				
Carcross	60	11	134	34	2171					23·7	—		16·0	30	−16·0	3	18·4												0·35		0·25	2	28	0	0	0
Dawson	64	4	139	20	1200	30·03	31·09	29·32	1·77	23·8	—	4	59·0	30	−25·0	30	29·7		9	1	0	1	10	0	0	1	35	60	1·30		0·80	6	21	6	0	1
White Horse	60	45	135	0	2075							9																								
ALBERTA—																																				
Athabasca Landing	54	43	113	17	1650					34·3	—	8	75·0	21	−12·0	4	27·2		2	5	4	1	3	0	9	9	0	30	0·34		0·20	3	27	0	0	0
Alix	52	21	113	10						34·0	—	6	71·0	21	−19·0	4	26·8												1·54		0·50	6	21	0	0	0
Banff	51	10	115	34	4542	29·97	30·48	29·48	1·00	33·0	−3·6	16	63·0	21	−13·7	4	23·3	6	3	5	1	2	4	27	6	2	10	60	1·15	0·19	0·55	9	21	2	0	0
Blairmore	49	40	114	30	4225					35·4	—	1	66·3	21	0·6	1	27·6												0·25		0·20	2	28	0	0	0
Calgary	51	2	114	2	3389	29·92	30·42	29·42	1·00	36·3	−3·4	27	71·0	21	−13·0	1	24·8	1	4	5	1	7	1	4	4	18	19	60	1·06	+0·37	0·51	6	21	0	0	0
Cardston	49	12	113	18						35·6	—	7	70·0	21 24	9·0	3	26·8												0·90		0·40	4	26	0	0	0
Didsbury	51	40	114	8	3300					38·5	—	9	76·0	21 24	14·0	1	27·3		0	1	2	3	4	4	3	13	0	30	1·00		·50	3	27	0	0	0
a Dunvegan	55	56	118	35	1305																															
Daysland	55	52	112	17																																
Edmonton	53	33	113	30	2158	29·93	30·52	29·25	1·27	38·5	−2·1	28	77·0	21	15·0	1	26·7	5	7	6	0	1	11	6	9	13	4	60	0·45	0·39	0·21	5	25	5	0	0
Eckville	52	23	114	22						31·0	—	4	72·0	22	25·0	1	28·2												1·00		0·80	2	28	0	0	0
Endiang	52	00	112	0	2795					35·5	—	1	75·0	21	5·0	3	26·1																	0	0	0
Fort Vermilion	58	27	116	3						27·6	—	5	64·0	21	21·3	3	25·3												1·8[illegible]		0·60	8	22	7	0	0
Gleichen	50	59	112	54	2952					37·8	2·7	11	76·0	21	4·0	4	28·0												0·80		10	1	26	0	0	0
Gilt Edge	52	59	116	43						—		3			6·8	5													0·55		0·15	1	26	0	0	0
Hillsdown	52	14	113	29	2806					35·7	—	8	75·0	21	−10·0	4	25·1		2	3	0	10	10	7	1	20	7	60	1·94		0·60	8	22	3	0	0
High River	50	35	113	53	3394					36·0	—	8	73·0	22 25	−6·0	4	21·4												1·18		0·25	8	22	0	0	0
Harmattan	51	45	114	23	3500					37·0	—	4	72·0	22	−17·0	5	26·6												1·35		0·60	5	25	0	0	0
Halkirk, (Emsburg)										31·7	—	2	71·0	21	−7·0	4	21·3		3	4	2	6	8	15	3	19	0	60	0·19		0·15	2	28	4	0	0
Lethbridge	49	42	112	51	2961					39·5	−4·1	10	71·5	25	2·3	4	25·4												0·89		0·33	10	20	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						37·8	—	4	75·3	21	0·4	4	27·3												0·82		0·26	8	22	0	0	0
Lacombe	52	58	113	44	2783					35·1	—	4	76·0	21	−11·9	4	28·1												1·15		0·35	8	22	0	0	0
Lawrence	50	16	113	26						37·7	—	4	75·0	21	0·0	4	30·7												0·6[illegible]		0·20	4	26	0	0	0
Lunnford	54	33	114	19						33·8	—	2	75·0	21	21·0	4	29·6												0·16		0·06	3	27	0	0	0
Loveland	52	30	111	59							—	1	78·0	21	−9·5	4													0·51		0·35	3	27	0	0	0
Medicine Hat	50	1	110	37	2161	29·92	30·17	29·13	0·71	41·2	−3·4	27	80·0	21	3·2	5	28·7	0	6	4	3	2	9	1	14	10	11	60	1·49	−0·9[illegible]	0·65	6	24	1	0	0
Macleod	49	44	113	24	3128					38·1	−4·3	16	78·0	27	4·0	3	21·9												0·45	0·08	0·25	2	28	0	0	0
Peace River Landing	56	15	117	15						32·7	—	4	74·0	30	13·0	3·4	26·8												0·15	—	0·15	1	29	4	0	0
Pembina	54	12	114	0						32·9	—	3	75·0	22	−16·0	4	27·6		11	5	1	4	4	6	14	15	0	60	0·20		0·15	2	28	0	0	0
Pakan (Victoria)	54	0	112	31						39·7	—	9	75·0	21	16·0	4	30·2		8	9	6	0	8	8	14	1	3	60	0·46		0·11	5	25	2	0	0
Pincher Creek	49	0	114	4	3750																															
Red Deer	52	16	113	49																																
Spirit River	55	40	118	47						29·9	—	2	69·0	30	−18·0	4	25·4												0·29		0·10	2	28	3	0	0
Threehills Creek	51	30	113	11						32·8	—	8	75·0	21	−15·0	4	26·1												1·29		0·62	6	21	6	0	0
Tyrol (Moose)																																				
Wetaskiwin	52	58	113	23	2180					35·1	—	8	74·0	22	11·0	4	21·6												1·03		0·34	7	23	5	0	0
Waitefield	53	29	111	38	2000					34·9	—	7	74·8	21	13·0	4	27·1	5	8	9	13	4	7	1	11	23	11	90	0·66		0·25	7	23	10	0	1
SASKATCHEWAN—																																				
Battleford	52	41	108	20	1620					39·1	+1·1	20	77·0	21	1·0	5	26·0												0·05	0·26	0·03	2	28	0	0	0
Broadview	50	23	102	33	1960																															
Brownlee	50	45	106	0						38·9	—	1	74·2	25	5·9	5	21·7		1	2	4	3	7	2	9	4	1	30	1·12		0·13	9	21	5	0	0
Boutin (White Fish Lake)										37·0	—	1	74·0	21 25	0·0	5 13	29·5												0·62		[illegible]	3	27	5	0	0
Chaplin	50	26	106	39	2202					37·7	−2·7	21	76·0	21	2·0	4	27·5		0	4	4	4	1	0	[illegible]	17	0	30	2·33	1·0[illegible]	2·[illegible]3	9	21	6	1	0
Cannington Manor	49	43	102	2	2064					35·6	−0·7	11	81·0	27	−2·0	6	23·9												[illegible]		0·20	1	29	[illegible]	1	0
Crescent Lake	50	59	102	25	1658					35·9	—	6	79·2	28	3·8	4	27·5		1	2	2	2	9	[illegible]	4	[illegible]	2	30	0·44		0·27	[illegible]	25	8	2	0
Duck Lake	52	54	106	20																																
Estevan	49	12	103	4	1858					39·3		7	81·0	27	11·0	4	21·0		1	0	7	5	[illegible]	4	[illegible]	4	4	30	[illegible]		[illegible]		[illegible]	[illegible]	0	0
East End	49	31	108	49																																
Foxleigh	50	37	104	29						37·6	—	5	71·0	25	1·0	5	24·6												0·40		0·40	1	29	6	0	0
File Hills	51	4	103	31						34·6	—	1	70·0	27	−12·0	6	27·9												r		r	0	30	0	0	0
Grenfell (Brownhill)	50	23	102	53	1957					39·2	—	9	80·0	27	3·0	6	28·8		4	5	2	15	7	5	6	16	0	60	0·53		0·30	5	25	3	0	0
Govan	51	17	104	51																														3	0	0
Glenbryan (Larchmount.)										35·3	—	1	76·5	26	3·0	5	27·7		0	5	8	7	1	8	17	11	0	60	0·73		0·20	8	22	7	0	0
Humboldt	52	12	105	9						38·3	—	4	71·0	24	2·0	6	26·6												0·06		0·16	2	28	0	0	0
Hubbard (Drumagne)	51	5	103	24																														0	0	0
Indian Head	50	28	103	40	1924					35·9	−2·0	15	73·0	26	2·0	3 6	30·3		5	5	6	11	18	11	8	15	8	90	0·29	0·51	0·25	2	28	0	0	0
Kamsack	51	30	101	52																																
Lloydminster	53	18	110	0						38·7	—	5	72·0	26	−3·5	5	27·1												0·[illegible]		0·30	2	28	[illegible]	1	0
Lanigan	51	51	105	2																																
Luseland. (										35·5	—	1	75·5	25	2·0	4	26·3												0·19		0·10	3	27	0	0	1
Moose Jaw	50	21	105	35	1759					39·0	+1·7	16	74·0		5·0														0·77	+0·38				3	0	0
Moosomin	50	0	101	37	1884					39·0		9	82·0	27	8·0	6	26·4		2	0	9	1	9	1	5	2	1	30						0	0	0
Muenster (St. Pete's Monastery)	52	0	105	0	1870					37·9		6	85·0	26	8·0	3	21·5		0	8	0	0	0	13	0	9	0	30	0·25		0·25	1	[illegible]	1	0	0
Melfort	52	47	104	30						36·5		2	73·0	22	4·5	6	23·8												1·57		0·47	4	26	7	0	0
Maple Creek	49	55	109	28																																
Orion Lake	53	52	109	59						33·5		6	72·0	26	4·0	6	28·0		5	3	1	4	1	4	3	6	0	30						0	0	0
Oliver	51	46	108	10						37·2		2	74·0	20	4·0	6	28·4												0·80		0·3[illegible]	5	25	11	0	0
Pense (Gatesgarth)	50	20	105	0	1879					36·4	−0·9	15	76·0	27	4·0	3 6	30·1		1	3	2	4	9	1	3	1	3	30	[illegible]		0·32	4	26	0	0	0
Prince Albert	53	10	106	0	1432																															
Prince (Meota)	51	0	108	20	1700																															
Qu'Appelle	50	30	103	47	2115																															

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, APRIL, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.
SASKATCHEWAN—*Con.*	° ′	° ′		in.	in.	in.	in.								
Regina	50 27	104 37	1885					36·9	+ 0·4	28	70·0	21, 27	2·0	6	26·1
Rathmullen	51 20	108 57						35·5		2	77·5	26	4·2	3	27·6
Rosthern	52 40	106 20	1657					36·8		1	72·7	23, 26	1·7	6	22·9
Swift Current	50 20	107 45	2439	29·98				39·0	2·0	25	76·0	21	2·0	5	21·2
Saskatoon	52 15	106 30	1571					38·5	+ 2·6	13	75·0	23	6·8	6	23·0
Strassburg	51 5	104 56						37·2		2	73·0	22	3·0	6	25·0
Scott (Hearts Hill)	51 50	109 30													
Stanley Mission								30·2		1	72·0	25	− 5·5	7	24·8
The Pas	53 49	101 15	860					33·0		1	70·0	24, 25	− 8·0	2	23·6
Waseca	53 6	109 29						35·6		4	75·0	21	− 5·0	5	27·2
Yorkton	51 11	102 29								2	74·0	28			
Yarbo (Fairfield)	50 30	102 4						36·5		4	83·0	28	6·0	1, 3	27·6
MANITOBA															
Almasippi	49 11	99 20						40·1		9	83·0	28	3·0	2	26·7
a Aweme (St. Alban's)	49 42	99 33	1180	28·74	29·18	28·30	0·88	41·7	+ 2·4	26	85·0	27	3·0	2	28·0
Brandon	49 51	99 57	1176					41·6	+ 2·5	23	83·8	27	7·0	2	28·6
Berens River	52 18	97 23	710					33·8		3	69·0	29	15·0	1	22·6
Carberry	49 52	99 20	1258							6					
Carman	49 31	98 0	872												
Cypress River	49 33	99 3	1232												
Dauphin	51 8	100 2	957					39·1		1	72·4	29	3·0	2	24·8
Hillview	49 55	100 33	1400					39·9	+ 0·8	22	84·0	27	9·0	7	25·6
Minnedosa	50 15	99 50	1690	29·60	30·46	29·43	1·03	39·0	+ 1·5	27	80·5	27	4·2	2, 7	26·0
Morden	49 11	98 6	978					40·8	—	7	85·0	28	4·0	1	25·2
Moose Horn Bay (Aitkensville)	51 15	99 33						35·0	—	1	73·0	28	9·4	3	21·6
Ninga	49 11	99 51	1619					—	—	1	82·3	27	1·5	1	
Oakbank	49 57	96 42	800							25	78·0	28	—		
Pipestone	49 34	100 58	1400												
Portage la Prairie	49 57	98 17	830					40·1	+ 0·6	21	80·0	28	7·0	1	22·2
Portage la Prairie (?)	49 56	98 17													
Pierson	49 11	101 5	1531												
Stony Mountain	50 40	97 14	803					39·7	1·6	29	79·0	28	0·0	1	25·2
Swan River	52 6	101 15	1112					38·4		3	75·0	23	− 1·0	1	25·3
Treherne	49 36	98 40	1212					40·8	+ 2·4	16	83·0	27	3·0	2	23·9
Virden	49 51	100 55	1444												
Winnipeg	49 55	97 7	760	30·02	30·51	29·26	1·25	41·1	+ 2·8	35	80·0	27	5·0	1	23·0
ONTARIO															
Alton	43 51	80 5	1250												
Aurora	43 57	79 24	886					40·5	—	3	77·0	30	11·3	3	21·2
Agincourt	43 47	79 16	500					43·9	− 1·0	16	78·6	28	12·1	2	19·3
Barrie	44 23	79 41	889					39·8	+ 0·3	35	71·5	28	5·0	2	18·1
Beatrice	45 8	79 20	800					38·6	+ 0·1	41	75·0	28	3·0	3	23·2
Bruce Mines	46 18	83 55	586					38·0	+ 1·1	12	66·0	24	3·0	1	21·8
Birnam	43 2	81 55	600					41·7	2·3	28	72·1	28	12·0	1	16·9
Brantford	43 10	80 21	750					43·8	+ 0·7	31	76·0	28	14·0	2	19·5
Bloomfield	43 59	77 21	260					40·1	3·6	13	72·5	30	9·0	3	19·9
Bancroft	45 1	77 50						36·6	+ 0·1	29	77·0	29	10·0	1	26·0
Copper Cliff	46 30	80 59						38·2		4	76·5	28	0·0	1	21·6
Clinton	43 32	81 37						39·3		9	72·0	28, 29	7·0	3	17·2
Coldwater	44 38	79 40	600												
Cottam	42 7	82 45	606					44·8	− 1·2	23	75·0	30	10·0	3	23·1
Chatham	42 23	82 12	595					45·1	0·3	24	74·0	28, 30	17·0	1	22·4
Cochrane	49 2	81 0	930	30·13	30·75	29·21	1·54	35·9		1	71·0	27, 28	6·0	1	22·4
Collingwood	44 31	80 2						45·9		15	78·0	27	12·0	1	22·3
East Toronto	43 35	79 18						41·4		5	77·0	28	11·0	2	19·4
Elora	43 41	80 24	1274					40·5	+ 0·4	15	76·0	26	7·0	3	22·0
Gravenhurst	44 54	79 20						37·0	− 3·2	40	77·0	28	− 4·2	9	26·1

STATION.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
SASKATCHEWAN—*Con.*																									
Regina																		0·48	0·64	0·15	6	21	0	0	
Rathmullen																		0·58		0·16	6	24	0	1	
Rosthern																		[illegible]							
Swift Current																		[illegible]	[illegible]	[illegible]	[illegible]				
Saskatoon																		1·51	+ 1·18	1·00	4	26	0	0	0
Strassburg																							0	0	0
Scott (Hearts Hill)																									
Stanley Mission					13	5	7	4	3	7	3	8	10	60				1·60		0·85	3	27	0	0	0
The Pas																		2·61		1·41	5	25	0	0	0
Waseca					0	5	2	4	1	7	6	5	0	30				0·30		0·25	2	28	3	0	0
Yorkton																		0·17		0·17	1	29	6	0	0
Yarbo (Fairfield)					1	1	1	4	7	1	3	8	4	30				0·19		0·19	1	29	6	2	0
MANITOBA																									
Almasippi																		1·94		0·80	4	26	0	1	0
a Aweme (St. Alban's)																		1·40	0·19	0·47	5	25	7	1	0
Brandon			5	1	1	27	3	21	5	10	2	20	1	90	4	111	13 N.W.	0·80	0·4	0·30	1	29	0	0	0
Berens River																		1·30		0·60	5	25	0	1	0
Carberry																		0·85		0·35	4	26	0	2	0
Carman																									
Cypress River																									
Dauphin																							0	0	0
Hillview			3	0	2	3	18	12	11	16	0	25	0	90				0·30	1·02	0·20	2	28	0	0	0
Minnedosa			4	1	3	2	6	6	4	1	2	10	26	60				0·62	0·25	0·26	6	24	5	1	0
Morden																		1·86		0·71	4	26	0	0	0
Moose Horn Bay (Aitkensville)					3	5	4	11	8	3	1	14	11	60				1·82		0·80	5	25	10	3	1
Ninga																		1·90		0·90	5	25	0	1	0
Oakbank																		2·02	+ 1·53	1·80	2	28	0	0	0
Pipestone																									
Portage la Prairie																		1·35	+ 0·03	0·60	5	25	0	0	0
Portage la Prairie (?)																									
Pierson																									
Stony Mountain					8	9	3	5	15	6	8	6	0	60	2·2	4·0		0·55	0·40	0·50	2	28	0	0	0
Swan River																		0·31		0·31	1	29	0	0	0
Treherne																		2·3[illegible]		1·22	5	25	0	1	0
Virden																									
Winnipeg			4	3	18	1	5	17	2	2		6	4	6				2·67	1·13	1·72	6	24	0	0	0
ONTARIO																									
Alton																									
Aurora																		1·16	0·72	0·56	6	24	0	0	0
Agincourt																		1·26	1·01	0·36	9	21	7	0	1
Barrie			5	5	8	8	13	10	8	2	6	24	11	90				1·26	0·50	0·34	11	19	5	0	0
Beatrice			5	7	3	1	3	15	7	4	2	17	38	90	4	111	13 S.	1·78	0·36	0·61	6	24	0	0	0
Bruce Mines																		1·83		0·51	7	23	4	0	0
Birnam					16	6	9	9	7	2	8	2	1	60				2·76	0·28	0·97	8	22	0	0	0
Brantford																		1·92	− 0·09	0·60	5	25	1	2	0
Bloomfield																		0·95		0·50	2	28	0	0	0
Bancroft																							0	0	0
Copper Cliff																		1·60		0·75	5	25	0	0	0
Clinton					10	2	10	10	9	3	2	12	2	60				2·15		0·50	10	20	0	0	0
Coldwater																									
Cottam					19	0	10	12	8	7	4	0	0	60				1·23	− 1·85	1·50	8	22	0	0	0
Chatham																		2·38	− 0·17	0·87	4	26	0	0	0
Cochrane					0	9	3	0	1	8	1	6	30	60				0·90		0·30	4	26	2	0	0
Collingwood																		0·40	0·60	0·10	7	25	0	0	0
East Toronto																		1·54		0·38	8	22	0	0	1
Elora																		1·83	0·27	0·82	7	23	0	0	0
Gravenhurst					7	4	18	13	5	1	10	9	23	90	2·0	43	14	1·42	0·19	0·56	4	26	5	0	0

ONTARIO—*Concluded.*																																									
Guelph	43	33	80	16	1050					40.8	+1.9	23	71.0	28	12.0	3	17.3																	1.82	+0.06	0.53	9	21	0	0	0
aGrimsby	43	13	79	36		27.72	30.16	28.26	1.90	43.2		2	76.0	29	16.0	3	19.0																	1.77		1.13	7	23	0	0	0
Haileybury	47	29	79	39	687					37.2	0.9	18	78.6	28	3.0	1	21.7				10	3	2	5	7	8	1	8	13	60	1.1	4.0	15 SW	1.09	0.16	0.57	6	24	8	0	0
Hamilton	43	16	79	51	303					43.1	−0.2	35	76.0	28	18.0	3	16.6																	1.79	0.59	0.47	6	24	0	1	0
Haliburton	45	1	78	28	1050					37.5	−3.5	22	78.0	28	−4.0	2	27.3																	0.40	1.40	0.40	1	29	0	1	0
Huntsville	45	19	79	8						38.8	—	5	77.0	29	5.0	1	25.9																				—	—	0	0	0
Kenora	49	48	94	32	1102					35.4	−2.1	12	70.0	27	−3.0	1	11.4																	1.56		1.06	2	28	3	1	0
Kakabeka Falls	48	29	89	26	912					35.3	—	3	71.0	27 9	−13.0	1-2	30.0																	0.63		0.35	2	28	6	0	1
Kingston	44	13	76	29	285	30.14	30.69	29.39	1.30	39.5	−2.1	36	67.0	30	9.8	2	18.5				7	15	3	7	1	12	12	2	1	60				2.05	+0.01	1.00	7	23	0	0	0
Kiomount	44	15	78	38	920					38.3	−0.2	12	75.0	29	−4.0	2	24.0																	1.92	0.17	0.31	7	23	0	0	0
Lucknow	43	56	81	30	908					39.4	3.4	27	75.4	27	5.0	3	19.4																	2.04	0.13	0.58	11	19	2	0	2
Lake Talon	46	15	78	48						37.2	2.2	46	78.0	28	4.0	3	26.0																	0.70	1.93	0.30	3	27	6	0	1
London	42	59	81	13	808	30.09	30.58	29.35	1.23	42.9	+0.1	28	76.0	28	14.5	3	20.5		6	12	0	7	0	16	0	0	16	21	0	90				3.98	+1.60	1.32	10	20	0	0	0
Lakeside Home	43	40	79	24						40.4	—	7	62.0	26 28	18.0	2	13.8																						0	0	0
Lorne Park	43	32	79	37						42.8	—	3	81.0	29	16.0	3	21.4																	1.11		0.50	7	23	0	0	1
Lindsay	44	20	78	45	872					40.9	+0.9	28	78.2	28	5.5	2	22.0		1	5	13	2	5	20	7	8	1	31	3	90	2.0	4.0	1 S E	0.89	0.71	0.33	9	21	2	0	0
Lakefield	44	25	78	15	850					42.5	+1.1	25	71.0	30	12.0	2	20.4																	1.05	0.79	0.53	3	27	0	0	0
Meaford	44	37	80	37	600																																				
*Midland	44	44	79	53	750					42.4	—	1	85.0	28	15.0	1	—																	1.25		1.25	8	22	3	0	0
Madoc	44	30	77	29	575					40.7		7	77.0	28 29	7.0	2	21.7																	0.71		0.51	5	25	2	1	0
Montagne	44	56	75	57						39.7		2	79.0	29	0.0	3	23.3																	0.90	0.86	0.35	4	26	6	0	0
Montreal River										31.9	—	1	77.0	28	−7.0	1-2	30.1																	1.22		0.43	5	25	0	0	0
*North Bruce	44	23	81	25						40.7	−0.5	23	70.0	27-28	5.0	3	—				4	0	16	1	17	7	16	29	0	90				1.85	+0.31	0.66	7	23	0	0	0
Owen Sound	44	34	80	55	597					40.6	+0.1	34	70.0	29	15.0	2	20.0				14	2	0	1	27	5	0	11	0	60							—		0	0	2
Orillia	44	34	79	24	775					41.1	−0.9	46	77.0	29	7.0	2	22.8				5	2	1	3	1	5	6	1	0	30				0.97	1.00	0.35	6	21	0	0	0
Ottawa	45	26	75	42	294	30.11	30.69	29.37	1.32	38.9	−3.8	28	79.0	29	2.0	3	20.7				5	1	10	5	8	3	18	6	1	60				1.62	0.26	0.75	8	22	1	1	0
*Ottonabee	44	20	78	18	674					45.0	+1.2	46	74.0	28	10.0	2	—				2	7	23	7	1	15	17	15	3	90				1.16	0.60	0.53	7	23	0	0	0
Port Arthur	48	27	89	12	644	30.08	30.60	29.38	1.22	35.4	0.0	30	57.0	27	−2.0	1-2	18.7		4	2	9	13	9	4	5	3	7	8	2	60				0.67	0.96	0.34	2	28	0	0	1
Port Stanley	42	40	81	13	592	30.12	30.56	29.43	1.13	41.2	−0.9	36	68.4	28	15.7	3	16.9		6	7	6	7	13	12	0	3	3	13	3	60				3.04	+0.46	0.87	14	16	0	0	1
Port Dover	42	47	80	13	635					40.3	3.2	35	70.5	28	14.5	1	18.0				3	2	6	3	2	3	9	2	0	30				3.01	1.56	0.46	12	18	0	0	[illegible]
Port Burwell	42	39	80	55	592					41.1	—	8	71.0	28	15.5	3	17.2																	2.29		0.78	4	26	0	0	0
Parry Sound	45	19	80	0	635	30.12	30.63	29.29	1.34	40.3	+0.3	35	76.0	28	7.0	1	22.3		5	4	0	11	5	11	1	13	12	1	3	60				1.50	0.64	0.50	5	25	2	0	0
Point Clark	44	5	81	44	595					—	—	39	—	—	3.0	1	—				21	3	12	6	9	1	4	2	0	58				1.62	0.38	0.50	5	25	0	0	0
Pelee Island	41	50	82	35	585					41.2	+0.1	30	62.5	26	29.5	5-16	7.2																	1.08	2.06	0.40	5	25	0	2	0
Paris	43	12	80	25	840					43.6	−0.2	22	78.0	28	15.0	2-3	19.8																	2.21	0.31	1.24	5	25	0	0	0
Peterboro	44	17	78	19	722					41.3	−0.7	41	78.0	28	5.0	2	21.4																	1.64	0.22	0.65	8	22	0	0	0
Porcupine										33.2	—	4	78.2	28	−14.2	2	28.8																						0	0	0
Renville	45	15	78	57	1038					36.8	—	4	76.0	28	1.0	2	22.5																						0	0	0
Renfrew	45	26	76	39	416					39.9	−1.4	23	83.0	28	1.0	2	21.9																	1.60	+0.11	0.70	7	23	2	0	3
St Catharines	43	9	79	17	347					44.7		1	76.5	28	18.0	3	22.8																								
Stonecliffe (Rockliffe)	46	9	78	6	557	30.12	30.71	29.38	1.33	35.7	−4.0	33	75.0	28	8.0	2	21.9				1	1	18	0	1	0	7	0	32	6				1.52	0.12	0.38	7	23	3	0	0
Southampton	44	30	81	21	656	30.13	30.64	29.23	1.41	40.2	−0.6	34	68.2	27-28	13.0	3	16.8		6	10	10	2	21	1	6	2	9	3	3	60				1.73	0.06	0.13	11	19	0	0	1
*Sarnia	42	59	82	24	586					43.7	+1.6	16	75.0	28	15.0	2	—																	1.40	0.15	1.10	1	29	0	0	0
Stratford	43	23	81	0	1191					41.6	0.4	15	72.0	27	8.0	2	22.0																	2.58	0.30	2.58	7	23	0	0	0
Stony Creek	43	13	79	45	292					43.2	−0.7	28	78.0	28	17.0	3	18.4		4	4	1	15	22	2	1	16	27	6	0	90	11	VI	13 SW	1.10	1.73	0.58	5	25	0	0	0
Schreiber	48	50	87	15						33.6	−2.6	11	62.0	28	9.4	1	20.3																	1.27		0.70	5	25	7	1	2
Shelburne	44	5	80	47						37.9	—	2	73.0	29	6.0	3	17.5																	1.62		0.85	4	26	0	0	0
Toronto	43	40	79	24	350	30.13	30.60	29.41	1.19	43.3	+0.2	71	76.0	28	16.3	2	17.5				6	3	25	0	2	3	12	7	2	60				1.54	0.50	0.44	10	20	0	0	3
Uxbridge	44	5	79	8	886					40.2	—	7	75.0	28	12.0	2	19.3																	1.17		0.31	8	22	0	0	0
Uplands	45	18	79	25						36.1	2.2	23	78.0	28	5.0	8	26.0				7	0	9	0	9	1	18	1	15	60				0.87	1.15	0.28	6	24	0	0	0
Ursa	44	54	78	18						37.7	—	5	66.0	25-28	4.0	2	17.8																	0.23		0.23	1	29	0	0	0
White River	48	35	85	16	1252	30.07	30.57	29.51	1.06	33.7	+0.1	22	70.0	27 28	16.0	1	27.1				7	1	7	1	6	4	11	0	25	60				0.21	1.50	0.06	5	25	[illegible]	[illegible]	[illegible]
Woodstock	43	8	80	47	980	30.11	30.57	29.35	1.22	44.6	−0.5	38	73.0	28	11.5	3	20.3	76	7	12	1	10	8	12	5	16	4	31	0	90	11.2	24.0	S SW	2.13	1.00	0.46	9	21	[illegible]	[illegible]	[illegible]
Welland	42	59	79	17	577					43.4	−0.2	25	73.0	28 29	13.0	3	20.4																	0.92	1.71	0.22	8	22	[illegible]	[illegible]	[illegible]
Windsor	42	20	83	4	625					44.6	1.4	36	73.0	29	21.0	2-3	16.2																	3.68	+1.72	1.35	10	20	0	0	0
Wallaceburg	42	35	82	24						44.8	—	6	73.0	28	20.0	2	20.1																	2.84		0.80	11	19	0	0	0
QUEBEC—																																									
Abitibi	48	43	79	22						31.3	−0.5	15	67.0	28	10.0	3	23.6		5	3	16	7	20	3	15	0	20	9	0	90	11	VI	13 S	0.51		0.30	3	27	1	0	0
*Anticosti, E. Point	49	6	61	42	30					30.0	+2.7	26	47.0	26	12.0	12	—				16	6	20	4	9	5	13	13	5	90				2.05		1.20	3	27	0	0	[illegible]
*Anticosti, W. Point	49	52	64	32	30					31.5	−0.1	29	46.0	28	15.0	4 11					12	10	14	6	11	0	1	33	0	90				0.79	0.71	0.30	5	25	0	0	1
Brome	45	10	72	36	678					35.0	−3.8	30	77.0	30	11.0	2	21.9				25	6	6	3	15	3	30	1	1	90				0.20	1.37	0.10	2	28	0	0	0
*Bicquet	48	25	68	53						33.7	−5.4	28	48.0	27	2.0	2	—				0	29	3	0	0	4	13	11	0	90				2.50	0.00	0.80	5	25	0	0	1
Clarke City	50	10	66	25																																					
*Cape Chatte	49	6	66	45						33.6	+0.2	28	53.0	28	15.0	2 4					8	2	13	0	0	10	26	2	29	90				1.15		0.60	4	26	0	0	0
*Cape Magdalen	49	16	65	20	93					32.9	0.7	29	60.0	28	12.0	2	—				2	5	2	5	12	0	2	15	17	90				1.08	1.72	0.80	9	21	1	0	2
Chicoutimi	48	25	71	5	150					—	—	32	73.0	28	−3.4	2	—		5	3	0	6	0	21	0	17	0	16	0	90	11	VI	8 SW	0.85		0.40	6	24	2	0	0
Chicoutimi (2)										35.8	—	1	82.0	27	2.0	4	19.7																	[illegible]		[illegible]	[illegible]	[illegible]	0	0	0
Disraeli	45	55	71	21	896					32.5		1	71.5	30	15.0	2	29.6																	0.70		0.21	4	26	0	0	0
Father Point	48	31	68	19	20	30.06	30.69	29.40	1.29	34.3	+0.6	33	56.8	26 28	8.3	2	15.3		6	2	6	8	5	2	4	8	15	10	2	60				0.63	1.33	0.20	5	25	0	0	1
Lake Edward	47	39	72	15	1333					29.7	—	2	75.1	30	26.0	2	21.5																	0.10		0.10	1	29	0	0	0
Montreal	45	30	73	35	187	30.12	30.73	29.42	1.31	49.0	1.7	33	78.3	29	8.1	2	15.4		4	1	1	0	12	8	1	2	11	1	0	60				1.09	1.23	0.41	7	23	0	0	3
Quebec	46	48	71	13	296	30.08	30.72	29.52	1.20	35.7	−1.4	36	74.2	28	1.6	2	17.8		6	5	0	22	0	0	2	16	16	3	1	60				1.54	0.49	0.55	7	23	[illegible]	0	0
*Roberval	48	31	72	13	352																																				

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, APRIL, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observed.	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	No. of observations.	Velocity of wind. Mean miles per hour.	Highest days velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of cloudy days.	No. of thunder storms.	No. of fogs.
QUEBEC.—*Concluded.*																																								
St. Anne de Bellevue	45	27	73	59																																				
Shawinigan Falls	46	31	72	43																																				
Sherbrooke	45	32	72	0	620																																			
Shawbridge	45	51	74	3																																				
NEW BRUNSWICK—																																								
Chatham	47	3	65	29	21	30.07	30.70	29.42	1.28	37	2	0	6	36	78	5	30	1	0	3	29	3																		
Dalhousie	48	4	66	22	39					34	1	0	9	33	76	6	28	1	0	3	30	3																		
Fredericton	45	57	66	39	161	30.08	30.65	29.49	1.16	37	4	1	4	38	78	5	30	1	0	4	30	4																		
Grand Manan	44	47	66	46	19	30.06	30.68	29.08	1.60	39	3	0	3	36	74	8	30	1	0	3	31	3																		
Moncton	46	9	64	45	200					37	3	1	2	13	78	7	28	1	0	3	29	4																		
*Point Lepreaux	45	4	66	28	300					36	1	1	1	33	75	6	28	1	0	3	30	4																		
St. John	45	17	66	4	70	30.07	30.69	29.53	1.16	37	4	2	1	38	66	5	30	1	0	4	30	4																		
St. Stephen	45	11	67	16	35					38	5	0	7	35	78	2	30	1	0	3	29	4																		
Sussex	45	48	65	38	69					38	5	0	1	34	77	6	29	1	0	3	29	4																		
NOVA SCOTIA—																																								
Antigonish	45	38	61	59	50					33	8			1	73	0	29	1	0	5	28	2																		
Halifax	44	39	63	36	88	30.04	30.61	29.46	1.08	38	5	1	0	36	79	2	29	1	0	12	28	2																		
Port Hastings	45	39	61	12	45					33	3	3	9	32	72	0	28	1	0	20	12	4																		
Parrsboro'	45	23	64	19	10					35	4	1	8	34	72	0	30	1	0	2	28	4																		
Sydney	46	10	60	10	25	30.01	30.57	29.48	1.09	34	8	2	0	31	77	0	30	1	0	5	30	5																		
*Sable Island, E. Point	43	58	59	46	155					35	6		0	31	73	0	30	1	0	3	30	3																		
Truro	45	22	63	18	77					35	3	2	5	33	73	1	29	1	0	12	29	4																		
Windsor	44	59	64	6	200					37	0		3	32	73	1	29	1	0	12	27	3																		
*Whitehead	45	15	61	8	50					33	2	1	8	29	69	0	29	1	0	11	31	5																		
*aWolfville	45	7	64	23		30.00	30.58	29.49	1.09	37	9	3	0	32	73	2	29	1	0	5	28	4																		
Yarmouth	43	50	66	7	65	30.09	30.70	29.62	1.08	37	4	2	8	30	72	1	29	1	0	3	31	5																		
P. E. ISLAND—																																								
Charlottetown	46	14	63	10	38	30.03	30.62	29.45	1.17	35	3	1	8	33	73	5	28	1	0	5	28	3																		
Charlottetown (2)	46	14	63	7	35					35	9		1	34	71	8	28	1	0	3	28	9																		
Hamilton	46	25	63	48						36	2	+	0	6	13	72	0	28	1	0	3	31	2																		
NEWFOUNDLAND—																																								
*Amour Point	51	28	56	51																																				
Burin	47	0	55	10	27																																			
*Cape Norman	51	38	55	52																																				
Fogo	49	43	54	17	30	29.96	30.39	29.41	1.09	30	9			2	51	0	27	11	0	5	8	7																		
*Point Rich	50	42	57	25	35					34	3	-	0	3	28	12	0	16	10	0	1	11																		
Port aux Basque	47	35	59	10	27	29.98	30.48	29.38	1.10	31	7			3	63	5	29	15	5	1	5	10	6																		
St. John's	47	34	52	42	125	29.85	30.36	29.01	1.32	32	1	3	3	38	65	0	28	12	0	6	13	2																		
BERMUDA—																																								
Prospect	32	17	64	30	151	30.20	30.30	30.09	0.21	62	3	+	2	2	21	72	1	8	52	1	15	11	6																		

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING APRIL, 1911.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS.
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake.										
Annis	0·85	1	26	0·35	18					Thunder on 9, 10.
Beaver Lake	0·84	5	25	0·55	17					
Coquitlam	1·78	5	25	1·00	18					
Denman's Island	1·61	4	26	0·80	9					
Ferguson	1·62	5	23	0·44	13	6·5	2	3·5	10	
Goldstream Lake	1·86	11	16	0·57	18					
Grand Forks										
Hydraulic	0·13	1	27	0·13	24	9·0	2	6·0	2	
Hornby Island	2·47	5	25	1·31	9					
Jordan River	3·10	11	18	0·80	10-18	1·0	1	1·0	11	
Jordan River (Bear Creek)	2·45	5	21	0·84	10	15·5	1	10·0	10	
Little Qualicum (French Creek, V.I.)	0·86	3	27	0·43	18					
Monte Creek	0·35	2	28	0·23	18					
Naas Harbour	4·47	8	21	1·25	18	2·0	1	2·0	7	
Skidegate	3·83	12	17	0·97	20	3·5	1	3·5	10	
ALBERTA—										
Bardo						2·0	1	2·0	3	
Bismark						12·1	5	3·7	1	
Bruederheim	0·18	1	25	0·18	25	3·5	1	2·0	2	Aurora on 20.
Bittern Lake	0·06	1	27	0·06	25	5·3	2	3·5	3	
Bantry										
Brooks	0·05	1	25	0·05	23	13·3	1	7·0	1	
Conjuring Creek						3·5	2	2·5	3	
Coutts										
Campsie	0·25	2	26	0·20	6	2·1	2	1·3	3	Aurora on 19, 20, 22. Thunder on 11.
Caldwell						13·8	9	4·0	1	
Dorenlee										
Elkwater										
Grassy Lake						6·0	3	4·0	29	
Jumping Pound	0·10	2	28	0·09	3	*	*			
Lacombe	0·40	2	27	0·27	25	4·5	1	4·5	3	
Langdon										
Loch Sloy						11·0	6	1·0	2	Fog on 11th.
Lyndon						16·3	3	14·6	3	
Lyndon (Playle Creek)	0·15	1	29	0·15	28	*	1	*	28	
Lineham						0·5	1	0·5	3	
Macleod						16·5	6	5·0	3	Fog on 26th.
Minda (Many Berries Ranch)						6·0	5	1·8	27	
Mayeroft	0·15	1	27	0·15	28	11·0	2	6·0	3	
Mayton										
Okotoks						4·0	1	4·0	2	
Ponoka	0·25	2	26	0·15	19	5·8	2	4·0	1	
Pekisko						10·0	2	6·0	12	
Sion	0·11	1	22	0·11	25	7·5	4	3·0	11	Aurora on 7, 9, 10, 12, 17, 18, 19, 20, 21, 22, 25, 26, 27, 28, 30.
Seven Persons						18·7	4	12·1	28	
Tilley										
Wabamum										
SASKATCHEWAN—										
Carmichael										
Coulee										
Elm How										
Forks Swift Current (Gull Lake)	0·13	3	19	0·13	28	5·8	8	2·0	1	
Gull Lake						7·7	4	2·5	28	
Hanley										
Kindersley						12·0	1	8·0	11	
Kelvinhurst						4·0	2	2·0	1-2	
Last Mountain										
Maple Creek	0·12	1	20	0·12	29	10·6	9	3·0	2-30	
Willow Creek	1·02	1	28	1·02	29	3·0	1	3·0	2	
MANITOBA—										
Cartwright										Aurora on 8, 16, 18, 20, 22. Thunder on 11, 17.
Deloraine	0·01	1	24	0·01	27	4·8	5	2·0	4	Aurora on 8. Thunder 11th.
Gretna	1·05	2	25	0·69	13	11·0	3	6·0	13	
Norquay	0·53	2	23	0·35	11	14·0	5	6·0	13	
Rapid City	0·39	2	26	0·20	10	4·6	2	2·6	5	Aurora on 8, 16, 17, 19.
Rosebank	0·90	2	28	0·60	12	*	1	*	13	Thunder on 11.
ONTARIO—										
Arden										
Deer Park	1·18	6	24	0·51	5	3·8	2	2·0	2	
Dutton										
Emsdale	1·56	7	23	0·55	11					Aurora on 2, 17.
Goderich										
Georgetown	1·48	8	20	0·53	5	0·8	2	0·5	16	Aurora on 15, 16.
Grantham	1·41	8	22	0·55	5					
Grand Valley	1·06	6	22	0·42	5	2·3	2	1·3	3	
MacCue	0·49	1	28	0·40	14	1·0	1	1·0	5	
Orangeville	2·91	7	22	0·78	5	0·7	1	0·7	1	
Princeton	2·30	5	25	1·06	5					
Sydenham	1·42	2	27	0·80	15	1·0	1	1·0	4	
Strathroy	3·26	7	23	0·92	13					
Watford	2·55	9	21	0·77	20					
Westport	0·50	1	26	0·50	5	4·8	3	2·5	4	Aurora on 18.
Wooler	1·40	3	27	0·80	5					
Westminster	2·80	3	27	1·22	13					
Wiarton	1·39	4	24	0·51	4-13	5·0	2	4·0	6	Fog on 30.
Wesley	1·44	6	21	0·58	5	3·5	3	2·5	2	Thunder on 6, Fog on 30.
QUEBEC—										
Timiskaming	1·45	3	25	0·76	5	0·3	2	0·2	6	
Kipawa										
Quinze Dam	2·56	3	24	2·05	14	1·8	3	3·0	15	
NEW BRUNSWICK—										
Point Escuminac	0·25	3	26	0·12	19	4·0	1	4·0	5	Fog on 7, 15, 16.

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF APRIL, 61.

STATIONS.	Hour Ending 6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.
Victoria	02	45	60	65	75	81	81	80	77	[illegible]	[illegible]	[illegible]	29	T	
Nanaimo	09	4	62	65	69	66	66	60	6	[illegible]	[illegible]	[illegible]	52	10	
Vancouver	16	49	62	62	73	73	77	68	71	68	[illegible]	[illegible]	57	21	
Agassiz	1	51	52	64	63	75	67	74	71	69	7	[illegible]	27		
Tranquille	11	49	71	68	78	76	71	71	64	72	66	[illegible]	49	29	
Summerland	29	7	67	69	90	68	88	75	69	76	72	[illegible]	47	04	
Kamloops	14	49	62	70	74	79	76	74	7	62	60	46	33	05	
Edmonton	17	35	51	65	67	65	71	64	63	61	58	[illegible]	47	21	
Lethbridge	01	28	45	58	61	62	60	70	66	67	[illegible]		44	46	07
Lacombe	12	26	42	56	69	79	71	69	66	67	65	62	41	27	01
Medicine Hat	13	46	54	66	75	78	76	83	85	76	68	[illegible]	46	07	
Dunvegan			..		.....										
Fort Vermilion		10	26	39	65	65	70	71	74	65	46	24	10	..	
Battleford		T.	14	39	57	63	68	61	64	61	50	18	15	T.	
Indian Head	07	40	61	73	80	77	72	72	71	69	65	41	41	06	
Moosejaw															
Rosthern	06	36	61	62	72	75	69	71	75	67	62	62	44	11	01
Brandon	02	28	76	77	81	83	80	78	71	72	68	65	35	08	
Winnipeg	13	48	63	72	78	76	72	75	73	81	74	70	55	14	
Haileybury	11	50	70	73	67	66	69	69	62	58	41	40	39	24	
Woodstock	02	18	33	45	49	48	53	54	51	48	44	42	31	01	
Lindsay	01	11	34	54	61	61	63	64	56	53	49	53	31	10	
Barrie	.	27	48	60	56	62	62	59	58	56	51	43	38	T	
Toronto	....	17	52	65	61	61	65	65	61	57	56	2	44	08	
Kingston	01	22	44	61	61	59	56	58	56	54	45	37	12	T.	
Ottawa	19	62	72	79	73	78	77	71	72	68	63	64	53	08	
Montreal	03	46	61	71	70	72	73	68	71	62	59	27	03		
Quebec		30	58	70	73	74	77	76	75	75	71	60	30	02	
Sherbrooke	20	53	64	67	68	66	67	69	65	66	61	50	48	14	
Fredericton	10	48	63	65	68	68	72	74	71	64	71	64	47	14	
Charlottetown	04	25	46	51	55	54	54	56	56	52	58	50	30	05	

	Victoria.	Nanaimo.	Vancouver.	Agassiz	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Dunvegan.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Rosthern.	Brandon.	Winnipeg.	Haileybury	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottet'wn.	
Registered duration in hours	216	228	218	216	247	288	233	223	226	228	219		176	165	2?7		232	210	2[illegible]	232	1[illegible]	[illegible]7	189	200	171	2[illegible]8	206	2[illegible]1	236	210	180	..
Percentage of possible duration	6[illegible]	[illegible]	60	53	60	70	56	53	53	55	60		41	39	57		56	58	63	57	39	44	47	50	42	64	58	[illegible]8	58	39	44	..
Difference from average	1[illegible]	-9		21										12	+19			1[illegible]	+14		[illegible]	[illegible]	+2	[illegible]	5	+19	[illegible]	+10		+1[illegible]		..
Maximum percentage in one day	89	90	93	84	98	90	90	91	94	96	91		75	73	94		91	91	94	96	88	89	88	89	80	96	94	[illegible]7	96	96	92	..
Date of maximum	4	25	25	20	28	26	30	28	14	28	15		22	10	18		14	6	21	11	21	9	3	24	7	24	3	26	26	25	12	..
No. of days completely clouded	0	5	0	1	2	1	1	3	3	3	1		3	1	3		2	2	3	3	8	4	3	1	1	1	2	2	2	5	6	..

Aurora recorded:—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Aitkensville, III; Treherne, III; Schreiber, IV; Lake Talon, IV; Lucknow, IV; Kenora, III; Chicoutimi, Haileybury, III; Aweme, III; Barrie, IV.

2. Emsdale, III; Bruce Mines, IV; Schreiber, IV; Kakabeka Falls, II; Haileybury, III; Gravenhurst, I.

3. Grand Manan, IV.

6. Fort Vermilion, III.

7. Sion, Boutin, II.

8. Rapid City, II; Cartwright, I; Yarbo, III; Glenbryan, Chaplin, IV; Brownlee, III; Boutin, II; Peace River Landing, Aitkensville, II; Treherne, III; Agincourt, II; Kakabeka Falls, III; Charlottetown, IV; Father Point, III; Aweme, II.

9. Sion, Muenster, I; Melfort, III; Waitefield, II; Agincourt, III; Lake Talon, Kakabeka Falls, I; Kenora, III; Brantford, IV; Parry Sound, II; Quebec, III; Stonecliff, II; Haileybury, II.

10. Sion, Kenora, II.

12. Sion.

14. Spirit River; Oliver.

15. Waseca, Melfort, II; Glenbryan, I; Foxleigh, Chaplin, IV; Crescent Lake, III; Grenfell, III; Boutin, IV; Chilcoten, III; Halkirk, Westaskiwin, Waitefield, II; Aweme, II; Treherne, II; Bruce Mines, IV; Renfrew, Montague, Madoc, II; Abitibi, St. John, III; Quebec, IV; Father Point, III; Haileybury, IV; Gravenhurst, II; Lindsay, IV; Fort Vermilion, I; Spirit River; Oliver.

16. Rapid City, II; Cartwright, Georgetown, III; Yarbo, II; Muenster, IV; Melfort, III; Glenbyran, I; Foxleigh, Estevan, III; Chaplin, IV; Crescent Lake, III; Grenfell, III; Boutin, II; Halkirk, Pakan, III; Threehills Creek, IV; Waitefield, IV; Aitkensville, IV; Aweme, III; Treherne, IV; Agincourt, IV; Bruce Mines, IV; Schreiber, III; Midland, Kakabeka Falls, IV; Montague, Madoc, IV; Cape Magdalen, Parry Sound, IV; Quebec, IV; Father Point, III; Stonecliff, II; Minnedosa, IV; Gravenhurst, II; Lindsay, IV; Stuart's Lake, Spirit River; Barrie IV; Oliver.

17. Sion, IV; Rapid City, I; Emsdale, III; Georgetown, IV; Yarbo, II; Muenster, II; Melfort, IV; Glenbryan, I; Foxleigh, Crescent Lake, IV; Brownlee, Pakan, IV; Waitefield, I; Aitkensville, IV; Agincourt, IV; Lake Talon, Midland, Montague, Minnedosa, III; Haileybury, III; Red Deer, I; Oliver.

18. Sion, II; Cartwright, Westport, Melfort, IV; Glenbryan, I; Foxleigh, Esteven, IV; Crescent Lake, IV; Chilcoten, III; Aitkensville, III; Aweme, IV; Treherne, III; Bruce Mines, II; Schreiber, IV; Lake Talon, IV; Midland, Renfrew, Montague, Chicoutimi, Quebec, III; Stonecliff, II; Cochrane, II; Haileybury, III; Red Deer, IV; Stuarts Lake; Barrie, IV; Oliver.

19. Sion, II; Campsie, III; Rapid City, I; Glenbryan, I; Foxleigh, Chaplin, IV; Brownlee, Chilcoten, IV; Halkirk, Threehills Creek, III; Wetaskiwin, Waitefield, III; Aitkensville, IV; Agincourt, IV; Schreiber, IV; Lake Talon, IV; Montague, Quebec, III; Ottawa, III; Minnedosa, III; Haileybury, II; Red Deer, IV; Barrie, IV; Oliver.

20. Bruederheim, Sion, II; Campsie, III; Cartwright, III; Glenbryan, I; Foxleigh, Chaplin, I; Brownlee, Bella Coola, IV, Chilcoten, III; Halkirk, Hillsdown, IV; Peace River Landing, Threehills Creek, III; Wetaskiwin, Waitefield, II; Aitkensville, IV; Aweme, II; Agincourt, IV; Cochrane, III; Gravenhurst, IV; Red Deer, IV; Barrie, IV; Oliver.

21. Sion, III; Cartwright, Melfort, IV; Hillsdown, III; Peace River Landing, Wetaskiwin Waitefield, IV; Aitkensville, IV; Agincourt, IV; Schreiber, IV; Lake Talon, IV; Kakabeka Falls III; Red Deer, II; Oliver.

22. Sion, II; Campsie, IV; Cartwright, IV; Yarbo, III; Melfort, III; Chaplin, I; Crescent Lake, III; Grenfell, II; Brownlee, Hillsdown, III; Peace River Landing, Wetaskiwin, Waitefield, IV; Brandon, Aitkensville, III; Aweme, III; Schreiber, IV; Kakabeka Falls, IV; Minnedosa, III; Haileybury, III; Gravenhurst, IV; Red Deer, IV; Oliver.

23. Yarbo, IV; Waseca, Crescent Lake, IV; Waitefield, IV; Lucknow, IV; Minnedosa, II; Truro, IV; Red Deer, I; Oliver.

24. Muenster, IV; Crescent Lake, IV; Aitkensville, IV; Montague, Fort Vermilion, I; Oliver.

25. Sion, II; Crescent Lake, IV; Waitefield, III; Red Deer, I.

26. Sion, IV; Waseca, Crescent Lake, IV; Threehills Creek, IV; Red Deer, I.

27. Sion, II; Yarbo, IV; Threehills Creek, IV; Father Point, III; Red Deer, I.

28. Sion, II; Father Point, III; Red Deer, I.

29. Boutin, I; Threehills Creek, I; Red Deer, I.

30. Sion, Waitefield, III; Red Deer, IV.

Thunder recorded :

4. Haliburton.
5. Madoc.
6. Wesley, Hamilton, Brantford.
7. Charlottetown.
9. Annis.
10. Annis, Quesnel; Lloydminster.
11. Campsie, Cartwright, Rosebank, Yarbo, Rathmullen, Chaplin, Crescent Lake, Ninga, Aweme, Carberry, Almasippi, Treherne, Minnedosa, Deloraine.
13. Schreiber.
15. Ottawa.
24. Glacier.
25. Rathmullen.
27. Cartwright, Yarbo, Foxleigh, Cannington Manor, Crescent Lake, Kenora, Berens River.
28. Berens River.

FORECASTS FOR APRIL, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1118. These were divided as follows :

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	71	56	18	0	87·8
Saskatchewan	74	67	6	1	91·6
Manitoba	75	60	14	1	89·3
Lake Superior	98	78	14	6	86·7
Lower Lake Region	103	77	23	3	85·9
Georgian Bay	105	82	20	3	87·6
Ottawa Valley	81	69	9	3	90·7
Upper St. Lawrence	81	68	12	1	91·3
Lower St. Lawrence	93	78	12	3	90·3
Gulf	108	90	15	3	90·3
Maritime Provinces West	113	94	12	7	88·5
Maritime Provinces East	113	94	13	6	88·9
Total	1118	913	168	37	89·2

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
May, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. MAY, 1911. No. 5.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

In British Columbia wet, cool weather retarded the growth of vegetation during the month of May. Over the southern portion of the province rain occurred very frequently during the first two weeks; in some districts, indeed, daily. Like conditions persisted throughout the third week in many sections of the Kootenays, but the last week, however, was fine and much warmer throughout the province. In the Cariboo district precipitation occurred on fewer days than elsewhere but temperatures were just as unseasonally low.

The month began with bright, warm weather in Alberta, while from the 3rd to the 7th temperatures were very high, maxima of 85° and higher occurring in the greater part of the province, and 90° or higher in the southwest, Medicine Hat reporting 99° on the 5th. From this date until the last two days of the month much cooler weather intervened, sharp night-frost occurring on the 7th, from the 9th to the 11th and on the 24th and 28th. Showers occurred about the 9th or 10th, 15th to 17th, 20th and 25th. Light falls of snow occurred in several districts on one to three days during the last week.

In Saskatchewan conditions were much the same as in Alberta, except that the period of heat which reached its climax on the 5th, was more pronounced, temperatures of 90° and higher occurring over a very large portion of the province.

During the month of May the province of Manitoba experienced four periods of warm weather. The dates of these were the 5th and 6th, the 8th and 9th, the 17th and 18th, the 30th and 31st. The highest temperatures of the month were registered on the 17th, exceeding 85° in all districts and 90° in many. On the nights of the 2nd and 3rd, the 12th and 21st sharp frosts were of general occurrence. The first nine days were fine but showers occurred on from 8 to 12 days during the remainder of the month. Snow fell to a considerable depth on or about the 11th at Aweme, Morden and Treherne, but in other districts of the province no snow in measurable quantities was recorded.

The mean temperature of the month of May of this year was in Ontario, higher than that of any other May previously on record. That of May, 1896, approached nearest. The first three days of the month promised nothing of the extreme heat to come. Flurries of snow occurred in many districts and heavy night frosts were of general occurrence till the 7th, ice forming in exposed places to a thickness of one-eighth to one-quarter of an inch. On the 7th began a period of heat which lasted continuously except for a cold interval on the 12th or 13th until the 24th. Moderate temperatures ensued till the 26th, which together with the two following days was very warm. Maximal temperatures during these periods ranged between 80° and 99°. The rainfall of the month was very scanty in southern and eastern Ontario. In the Georgian Bay counties and in Algoma and many parts of the Thunder Bay and Rainy River districts an excess over normal was reported by several observers.

In western and central Quebec weather conditions were very like those which obtained in Ontario. From the 7th to the end of the month there were very few cool days. From the 20th to the 24th the heat was at its maximum, many stations recording 90° or higher on four successive days. The rain-

fall was much less than the normal quantity, although in some districts it was recorded on from 9 to 11 days. In Eastern Quebec, especially the Gaspé counties, although the mean temperature of the month was higher than normal, the heat was not so great and rain fell in greater quantities, the total precipitation of the month exceeding the average for May.

The month was very hot and dry throughout the Maritime Provinces. From the 19th to the 22nd and on the 27th and 28th, temperatures exceeding 90° were recorded. Sharp frosts occurred on the first three nights and on the 6th, 8th and 11th. In many counties rain was recorded on one or two days only.

ATMOSPHERIC PRESSURE

The mean atmospheric pressure exceeded the average over Northern British Columbia, the greater part of Ontario, Quebec and the Maritime Provinces, while subnormal values were recorded over Southern British Columbia, the Prairie Provinces, the Lake Superior district and the Gulf of St. Lawrence

The greatest departures from normal were − 0·08 of an inch at St. John, N.B., and − 0·09 of an inch at Medicine Hat.

HIGH AREAS.

Six areas of high pressure were charted and there were several minor local areas not considered. Of the six areas three first appeared on the United States Pacific Coast, two on the Northern British Columbia Coast and one to the northward of Manitoba. All of the systems eventually traversed the continent and passed off the Atlantic Coasts. The United States Pacific areas showed a marked tendency to push northward, especially the one appearing off the North Pacific States on the 18th, a portion of which spread north into Alaska and the Yukon Territory when it recurved southeastward, eventually following in the wake of the primary part of the system which had previously travelled over Canada to the Gulf of St. Lawrence and Newfoundland.

LOW AREAS.

Nine areas of depression were sufficiently defined to allow of their paths being traced while there were a few others of feeble energy and of short and erratic courses which were not charted. Of the nine areas, two first appeared in the vicinity of Northern British Columbia, four in the West Pacific States, one in the Western States and two in Eastern Canada. The area which passed into the Gulf of St. Lawrence from Labrador on the 5th and thence over Newfoundland and the area which formed in Southern Dakota on the 20th and with greatly increased energy afterwards, traversed the Great Lakes and the St. Lawrence Valley were two of the most important depressions of the month, although several of the remaining areas were quite pronounced in our Western Provinces.

WINDS, MAY, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
British Columbia.							
Victoria	6438	362	30	1	9	13	S.W.
Point Garry	6321	533	38	1	11	7	
Triangle Island	8111	909	51	7			N.W.
Alberta.							
Sulphur Mt., Banff	11703	866	46	8	8	6	S.W.
Edmonton	5557	348	24		4	10	W.
Saskatchewan.							
Swift Current	9826	570	41	3	10	10	S.W.
Prince Albert	5281	395	28		2	12	E. & S.
The Pas	6398	157	10	2	2	11	E.
Manitoba.							
Winnipeg	9653	499	31	2	11	8	W. & N.
Ontario.							
Port Arthur	7717	511	31	1	8	15	E. N.E.
Parry Sound	5105	383	23		2	7	S.W.
Pelee Island	6896	382	25		1	11	S.W.
Toronto	6858	486	37	1	5	7	S.W.
Guelph	7741	472	31				N.W.
Quebec.							
Quebec	9889	598	42	6	11	8	N.E. & S.W
Father Point	14850	696	45	11	7	5	W.
Anticosti	9859	564	37	2	13	11	S.E.
Maritime Provinces.							
Fredericton	6959	406	27		7	10	S.W.
St. John	7728	473					S.
Pt. Lepreaux	8709	713	41	5	12	7	S.W.
Halifax	8681	637	40	4	9	8	W.
Flat Pt.	9035	627	42	1	8	9	S.W.
Sable Island	13286	741					S.W.

TEMPERATURE.

From the Pacific coast to eastern Saskatchewan the weather of the month of May was cooler than is normal to that portion of the Dominion, while from Manitoba eastward to the Atlantic Ocean the heat was many degrees abnormal. In Ontario no such heat has been experienced during the month of May in any year of record. And this is also true of a great portion of the Maritime Provinces.

In British Columbia mean temperatures were from 1° to 3° lower than normal, in Alberta 1° to 3° in the eastern portion and about normal in the western. In Saskatchewan there was a deficiency of about 3° in the western districts but near the Manitoba boundary temperatures were nearly normal.

In Manitoba mean temperatures exceeded the normal mean temperatures of May by 1° in the extreme western portion and by 4° to 6° in the eastern. The excess over normal increased through the Lake Superior region to from 7° to 9° in southern Ontario and the Ottawa Valley. In western and central Quebec there was an excess of 5° to 8° but in the Gulf counties of only 3° or less, while in the Maritime Provinces it ranged between 2° and 6°.

The highest and lowest temperatures recorded in each Province during the month of May, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	90° at Alberni on the 31st and Enderby on the 31st	18° at Chilcotin on the 9th.
Alberta,	99° at Medicine Hat on the 5th	16° at Blairmore on the 23rd
Saskatchewan,	91° at Battleford on the 5th and Chaplin on the 5th	10° at Grenfell on the 1st.
Manitoba,	94° at Moose Horn Bay on the 18th	10° at Pierson on the 1st.
Ontario,	99° at Collingwood on the 27th and Pelee Island on the 19th	7° at Matheson on the 4th.
Quebec	95° at Chicoutimi on the 21st	16° at Abitibi on the 4th.
New Brunswick,	96° at Grand Manan on the 17th	20° at St. Stephen on the 5th.
Nova Scotia,	89° at Halifax on the 22nd	12° at Antigonish on the 16th.
P. E. Island,	83° at Charlottetown on the 22nd	28° at Charlottetown on the 17th.

PRECIPITATION.

The precipitation of the month was generally well in excess of average in British Columbia although deficiencies were reported from some northerly districts. And the same is true of Alberta and Saskatchewan also. In Manitoba the precipitation was very heavy, in some cases exceeding the normal by as much as four inches. An excess was also reported from the Lake Superior districts and the Georgian Bay counties, but in the remainder of Ontario, in the Maritime Provinces, and all Quebec except the Gaspé and North Shore counties, there was a marked deficiency.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION Amount	Difference from average.	Heaviest fall in month.	Days with .01 or more	No. of fair days.	No. of cloudy days.	No. of thunder storms	No. of fogs.
BRITISH COLUMBIA				in.	in.	in.	in.																																	
Alberni (Beaver Creek)	49	15	124	49	30																																			
Agassiz	49	14	121	31	52																																			
Atlin	59	35	133	38	2240	29.02	30.50	28.33	2.17																															
Barkerville	53	2	121	35	4180	26.87	27.25	25.29	1.96																															
Bella Coola	52	40	126	54																																			
Babine Lake	55	38	126	26																																			
Boswell																																							
Chilcotin	51	10	123	0	3100																																		
Cranbrook	49	30	115	50																																			
Clayoquot	49	11	125	17	10																																		
Cowichan (Tzouhalem)	48	45	123	42	170																																		
Chilliwack	49	10	121	57	21																																		
Enderby	50	32	119	7	1180																																		
Fort St. James (Stuart's Lake)	54	28	124	12	2280																																		
Fairview	49	11	119	36																																			
Fruitvale	49	9	117	31																																			
Glacier	51	14	117	29	1972																																		
Golden	51	16	116	55	2580																																		
Grand Forks	49	2	118	27																																			
Holberg	50	39	128	18																																			
Hedley	49	37	120	40	1771																																		
Hedley (Nickel Plate)																																							
Hope	49	23	121	25																																			
Ikeda Bay	52	17	131	7																																			
Kamloops	50	41	120	29	1245	29.85	30.24	29.31	0.91																															
Ladner	49	5	123	4																																			
Massett, Q.C.I.	53	58	132	9	30																																		
aNanaimo	49	10	123	57	127	29.88	30.35	29.11	1.24																															
Nicola Lake	50	9	120	53	2120																																		
North Nicomen	49	12	122	2	50																																		
New Westminster	49	13	122	54	350																																		
Nelson	49	29	117	21	1709																																		
Needles																																							
Okanagan Mission	49	52	119	31	1200																																		
Princeton	49	29	120	29	1650																																		
Penticton	49	29	119	35																																			
Pemberton Hatchery	50	20	122	33																																			
Prince Rupert	54	18	130	18	170	29.98	30.15	29.33	1.12																															
Quesnelle	52	59	122	30	1700																																		
Revelstoke	51	0	118	6	1176																																		
Rossland	49	5	117	48	3000																																		
Ruskin (Stave Falls)	49	16	122	23	125																																		
Salmon Arm	50	42	119	35	1152																																		
Steveston (Garry Point)	49	21	123	17																																			
Swanson Bay	54	37	128	53																																			
Salt Spring Island	48	50	123	29																																			
Summerland	49	37	119	40	1100																																		
Sooke	48	21	123	44	25																																		
Stewart	56	1	130	1	215																																		
Tobacco Plains (Elko)	49	1	115	5	2681																																		
Triangle Island	50	52	129	5	680																																		
aTranquille	50	41	120	29		28.65	29.07	28.04	1.03																															
Vernon (Coldstream Ranch)	50	14	119	15	1570																																		
Victoria	48	24	123	19	85	29.96	30.16	29.19	1.27																															
Vancouver	49	17	123	5	196	29.97	30.18	29.27	1.21																															
Winter Harbour	50	32	128	3																																			
Wilmer	50	31	116	11																																			

YUKON :—																																					
Carcross	60	11	134	34	2171					40·1	—	1	61·0	26	20·0	12	18·7													1·38	—	0·51	5	26	0	0	0
Dawson	61	4	139	20	1200	29·89	30·56	29·37	1·19	46·1	−1·4	10	66·0	25·29	23·0	13	20·7	8	1	10	1	0	0	3	0	0	4	41	62	1·68	+0·67	0·40	17	14	0	1	0
White Horse	60	45	135	0	2075																																
ALBERTA—																																					
Athabasca Landing	54	43	113	17	1650					48·4	—	8	80·0	5	21·0	8	27·7			2	1	1	3	3	5	15	1	0	31	1·87	—	0·96	7	21	0	0	0
Alix	52	21	113	10						47·9	—	6	80·0	5	27·0	22	25·0			0	3	3	6	4	6	2	7	0	31	2·25	—	0·70	6	25	0	0	1
Banff	51	10	115	31	4512	29·90	30·26	29·10	1·16	43·1	−1·8	16	74·1	31	21·3	28	21·6		12	1	7	2	3	1	27	6	0	12	62	1·35	1·34	0·43	11	17	1	0	0
Blairmore	49	40	114	30	4225					43·4	—	1	75·2	5	16·3	23	23·3													5·88	—	1·09	9	22	0	0	0
Calgary	51	2	114	2	3389	29·83	30·18	29·18	1·00	47·3	−1·5	27	83·0	5	26·0	1, 2	22·1		7	3	11	2	6	0	2	3	22	13	62	5·03	+2·55	1·10	12	19	0	2	0
Cardston	49	12	113	18						46·9	—	7	83·0	4	22·0	7	21·0													1·42	—	0·98	10	21	0	0	0
Didsbury	51	40	114	8	3300					48·7	—	9	82·0	5	26·0	1, 2	26·3			3	1	8	3	4	2	4	1	2	31	3·20	—	0·68	10	21	0	0	0
*a*Dunvegan	55	56	118	35	1305																																
Edmonton	53	33	113	30	2158	29·81	30·28	29·12	1·16	51·1	−0·1	29	83·0	5	24·0	24	28·3		8	11	4	7	4	10	5	10	6	2	62	1·95	+0·19	0·69	9	22	0	0	0
Eckville	52	23	114	22						48·1		4	79·0	6	20·2	21	27·5													1·02	—	0·35	4	27	0	0	0
Endiang	51	58	112	6	2795					47·0	—	1	86·0	5	23·2	6	25·9													2·46	—	1·13	6	25	0	0	0
Fort Vermilion	58	27	116	3						50·1	—	6	80·3	16	22·0	23	26·8													0·73	—	0·29	4	27	0	0	0
Gleichen	50	59	112	51	2952					48·2	1·0	13	84·0	5	27·0	2, 7	25·7													3·40	—	0·85	5	26	0	0	0
Gilt Edge	52	59	110	43								2			21·0	2																			0	0	0
Hillsdown	52	14	113	29	2806					49·1		7	81·0	5	26·0	22	25·6			0	4	0	20	2	12	0	22	2	62	2·15	—	0·65	8	23	2	0	0
High River	50	35	113	53	3391					45·9	—	8	82·0	6	23·5	1-2	21·8													3·52	—	1·25	10	21	0	0	0
Harmattan	51	45	114	23	3500																																
Halkirk, (Emsburg)	52	17	112	10						47·3	—	2	85·0	5	23·0	2	21·4			1	8	2	11	4	15	3	15	0	62	2·25	—	0·83	9	22	1	2	0
Lethbridge	49	42	112	51	2961					50·4	−0·6	10	90·8	6	26·5	1	22·8													2·32	—	0·59	13	18	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						48·9	—	4	87·6	5	25·2	1	24·8													1·90	—	0·30	13	18	0	0	0
Lacombe	52	58	113	41	2783					47·2	—	4	83·1	5	22·1	7	30·3													1·51	—	0·45	10	21	0	0	0
Lawrence	50	16	113	26																																	
Lunnford	54	33	114	19						46·5	—	2	77·0	5	19·5	24	29·9																				
Loveland	52	30	111	59						49·8	—	2	93·0	5	21·0	21	28·3			1	8	4	11	5	9	4	7	6	49	1·61	—	0·70	7	24	0	0	0
Medicine Hat	50	1	110	37	2161	29·81	30·12	29·22	0·90	54·5	+0·2	27	99·0	5	30·0	1	26·7		8	11	6	3	1	5	8	13	7	8	62	1·65	—	0·60	5	26	0	0	0
Macleod	49	44	113	24	3128					47·5	−3·6	15	88·0	6	28·0	1	19·6													1·81	+0·05	0·61	10	21	0	0	0
Moose (Tyrol)	51	15	110	39																										2·76	+1·22	0·59	11	20	0	0	0
Peace River Crossing	56	15	117	15						55·8	—	4	82·0	15	32·0	23-24	23·1																				0
Pembina	54	12	114	0						46·9		4	76·0	5, 6	19·0	7	30·1			2	5	1	9	9	3	17	13	0	62	1·29		0·61	3	28	1	0	0
Pakan (Victoria)	54	0	112	31						48·1	—	7	80·0	5	17·0	24	28·0			5	7	10	0	9	7	13	9	2	62	1·02	—	0·38	5	26	0	0	0
Pincher Creek	49	0	114	1	3750																									0·91	—	0·21	9	22	0	0	2
Red Deer	52	16	113	49						47·2	—	7	81·0	5	25·0	22	26·1			4	0	0	2	4	6	5	9	0	30	2·10	—	0·58	8	23	12	0	0
Spirit River	55	40	118	47						49·1	—	2	77·0	15	23·0	10	20·3													0·50		0·20	4	27	0	0	0
Sandial	50	6	112	34						50·4	—	1	90·0	5	26·0	1	22·4													1·81		0·71	11	0	0	0	0
Threehills Creek	51	30	113	11						48·0		9	81·0	5	23·5	1	26·1													2·67	—	0·80	13	18	1	0	0
Wetaskiwin	52	58	113	23	2180					49·0	—	9	84·0	6	26·0	21	23·3													3·35	—	1·95	7	24	0	1	0
Waitefield	53	29	111	38	2000					48·7	—	6	87·0	5	21·9	24	26·0			7	6	14	12	3	5	18	6	22	93	2·39		0·72	15	16	3	3	0
SASKATCHEWAN—																																					
Battleford	52	41	108	20	162	29·87	30·25	29·46	1·10	50·3	1·2	21	91·0	5	21·0	1	23·6													2·60	+0·91	0·64	8	23	0	0	0
Broadview	50	23	102	33	1960					49·7	—	7	91·0	6	12·0	1	31·6			1	5	4	2	0	0	1	14	11	31	2·77		2·50	7	21	0	0	0
Brownlee	50	45	106	0						50·0	—	1	87·0	5	24·8	2	26·3			3	5	4	1	6	3	3	5	1	31	3·57	—	1·18	8	23	0	0	0
Chaplin	50	26	106	39	2202					48·7	−3·6	25	91·0	5	16·0	1	25·3			3	8	1	3	0	6	0	10	0	31	3·59	+1·45	0·89	14	17	1	2	0
Cannington Manor	49	43	102	2	2061					48·7	−2·5	14	83·0	5	15·0	1	24·6													2·79	—	0·81	10	2	1	4	0
Crescent Lake	50	59	102	25	1658					47·6		6	87·2	6	16·3	2	26·9			3	7	1	0	10	2	6	2	0	31	3·56	—	0·65	14	17	3	1	1
Cumberland House	53	56	102	16						48·2		1	74·0	10	28·0	5	21·8																		0	0	0
Duck Lake	52	54	106	20																																	
Estevan	49	12	103	1	1858					52·2	—	6	85·0	5	15·0	1	24·6			6	3	6	5	5	1	2	1	2	31	2·40		0·61	5	26	0		1
East End	49	31	108	49																																	
Foxleigh	50	37	104	29																																	
File Hills	51	4	103	31								1	85·0	5	16·0	2														2·75		1·00	5	26	0	0	0
Grenfell (Brownhill)	50	23	102	53	1957					49·7	+0·3	12	89·0	5	10·0	1	27·6			3	19	5	7	6	6	5	11	0	62	3·01	+1·07	0·81	10	21	1		0
Glenbryan (Larchmount)	49	54	107	27						47·0	—	1	89·0	6	13·0	1	26·8			3	12	8	7	1	8	16	7	0	62	2·31		0·71	11	20	0	3	1
Humboldt	52	12	105	9						47·9		5	87·0	6	20·0	1	24·6													3·11	—	2·00	5	26	0	0	0
Hubbard (Drumague)	51	5	103	24																																	
Indian Head	50	28	103	40	1924					50·2	+0·3	21	90·0	5	15·0	1	24·4			6	16	7	16	11	9	7	18	3	93	3·77	+1·79	0·77	8	23	0	2	0
Kamsack	51	30	101	52																																	
Lloydminster	53	18	110	0						47·4		8	88·0	6	21·4	1	24·6													1·02	—	0·27	8	23	0	0	0
Lanigan	51	51	105	2																																	
Luseland	52	5	109	24						47·3		1	90·0	5	11·5	2	25·3													1·99		1·37	9	22	0	1	0
Moose Jaw	50	21	105	35	1759					50·8	0·9	15	90·0	5	19·0	2	26·6													2·28	+0·10	0·84	7	21	0	1	0
Moosomin	50	0	101	37	1884					49·6	+0·7	10	86·0	5	17·0	2	26·2			1	4	11	0	4	4	1	6	0	31	2·72	0·86	0·55	11	20	0	0	0
Muenster (St. Peter's Monastery)	52	0	105	0	1870					48·7		5	84·0	5	20·0	2	27·0			0	5	3	7	0	10	1	5	0	31	0·92	—	0·50	1	27	1	1	0
Melfort	52	47	104	30						48·4		2	84·5	5	17·0	1	25·6													1·60		0·49	10	21	2	0	0
Maple Creek	49	55	109	28																																	
Onion Lake	53	52	109	50						51·2		5	86·0	6	28·0	20·25	28·8			3	6	2	6	2	1	6	2	0	28		—				0	0	0
Oliver	51	46	108	40						49·8		2	91·0	5	18·0	2	26·4													1·19		0·16	5	26	0	0	0
Pense (Gatesgarth)	50	20	105	0	187																																
Prince Albert	53	10	106	0	1432					46·4	3·9	15	82·0	31	12·0	2	30·0			5	1	2	4	1	0	7	8	3	31	3·41	+1·01	1·62	9	22	0	0	0
Prince (Meota)	54	0	108	20	1700					50·0		1	90·0	5	17·0	1	23·6													2·02		0·75	10	21	0	0	1
Qu'Appelle	50	50	103	47	2115																																

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.
	° ′	° ′		in.	in.	in.	in.								
SASKATCHEWAN—*Con.*															
Regina	50 27	104 37	1885					49.3	+1.0	25	88.0	5	15.0	[illegible]	[illegible]
Rathmullen	51 20	108 57						49.0		2	90.5	6	19.3	2	24.7
Rosthern	52 40	106 20	1657					49.7		1	82.2	6	23.7	1	19.6
Swift Current	50 20	107 45	2439	29.89	30.23	29.21	[illegible]	50.5	+0.2	23	84.0	5	24.0	2	23.1
Saskatoon	52 15	106 30	1571					48.4	+0.7	15	88.5	6	22.7	2	21.5
Scott (Hearts Hill)	51 59	109 30						47.1		1	90.2	5	19.2	2	29.6
Stanley Mission															
The Pas	53 49	101 15	860	29.90	30.26	29.11	[illegible]	48.2		1	83.2	5	22.0	1	21.5
Wasera	53 6	100 29						49.0		1	89.0	5	20.0	1	21.2
Yorkton	51 11	102 29						49.2		3	87.0	6	17.0	1	26.8
Yarbo (Fairfield)	50 39	102 4						48.3		1	84.0	7	12.0	2	26.3
MANITOBA—															
Alnasippi	49 14	99 20						52.8		9	89.0	17	15.0	1	[illegible]
a Awerne (St. Alban's)	49 42	99 34	1180	28.68	29.03	28.13	0.90	51.3	+2.8	25	91.5	17	14.0	1	30.7
Brandon	49 51	99 57	1176					52.5	+3.5	21	90.0	17	13.0	2	26.9
Berens River	52 18	97 23	710					47.1		5	81.0	19	[illegible]	1	19.4
Birtle	50 25	101 1	1703					50.0		7	84.0	6	[illegible]	2	[illegible]
Carberry	49 52	99 20	1258							6					
Carman	49 31	98 0	872					53.1		6	87.0	18	20.0	1	24.1
Cypress River	49 33	99 3	1232					50.7		6	86.0	18	11.0	1	26.1
Dauphin	51 8	100 2	957							5	87.0	6			
Hillview	49 55	100 33	1100					51.8	+2.6	21	90.0	17	14.0	1	26.0
Minnedosa	50 15	99 50	1620	29.89	30.31	29.20	1.11	51.2	+1.5	27	[illegible]	17	15.1	2	26.2
Morden	49 11	98 6	978					53.4		6	89.0	18	19.0	2	25.2
Moose Horn Bay (Aitkensville)	51 15	98 33						49.6		1	93.7	18	17.0	3	22.6
Ninga	49 14	99 51	1649							1	87.4	17			
Oakbank	49 57	96 17	800					53.3	+1.8	16	86.3	17	21.0	1	22.8
Pipestone	49 34	100 58	1400					51.6		9	87.0	6	19.0	1	25.6
Portage la Prairie	49 57	98 17	859					53.1	+1.5	24	84.0	17	19.0	1	22.0
Portage la Prairie (2)	49 56	98 17						51.6		6	81.0	6	[illegible]	2	29.6
Pierson	49 11	101 5	1531					51.1		7	81.0	7	10.0	1	27.0
Stony Mountain	50 10	97 14	843					52.6	+1.2	31	85.0	18	17.0	2	28.7
Swan River	52 6	101 15	1112					50.5		3	90.0	6	20.0	1	25.8
Treherne	49 36	98 40	1212					53.1	+1	16	86.0	15	17.0	2	24.7
Virden	49 51	100 55	1444					50.4		7	87	6	[illegible]	17	20.6
Winnipeg	49 53	97 7	760	29.89	30.37	29.18	1.19	55.1	+1.0	37	86.0	17	19.3	2	[illegible]
ONTARIO															
Alton	43 51	80 5	1250												
Aurora	43 57	79 21	886					60.5		3	92.5	28	25.0	3	25.5
Agincourt	43 47	79 16	590					60.1	+5.7	17	93.2	28	26.1	3	26.0
Barrie	44 23	79 41	881					58.9	+7.9	35	90.0	28	21.6	3	23.5
Beatrice	45 8	79 20	800					57.6	+6.0	30	88.0	22	21.6	3	25.3
Bruce Mines	46 18	83 55	595					[illegible]	+3.2	13	82.0	29	12.0	3	21.4
Birnam	43 2	81 55	600					60.7	+5.7	26	89.7	27	27.1	3	22.4
Brantford	43 10	80 21	750					62.0	+7.1	31	90.0	28	27.0	2	26.9
Bloomfield	43 59	77 21	290					60.3	+5.5	14	90.0	[illegible]	[illegible]	3	23.9
Bancroft	45 1	77 50						58.8	+7.4	20	92.0	22	21.0	2	30.2
Copper Cliff	46 30	80 59						56.8		4	88.5	19	20.0	2	24.7
Clinton	43 32	81 37						59.2		8	89.0	23	18.0	3	23.7
Coldwater	44 38	79 40	600												
Cottam	42 7	82 45	606					61.2	+3.8	23	[illegible]	28	21.0	2	30.7
Chatham	42 23	82 12	595					61.3	+5.1	23	96.0	28	28.0	3	28.8
Collingwood	44 31	80 2						63.8	+10.6	17	90.0	27	25.0	2	27.9
East Toronto	43 35	79 18						59.1		5	[illegible]	22	25.0	3	25.7
Elora	43 41	80 21	1271					59.0	+6.5	14	92.0	22	23.0	3	27.1
Gravenhurst	44 51	79 20						57.1	+4.3	31	87.0	20	22.0	4	27.5

STATION.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Mean miles per hour.	Highest day's velocity.	Prevailing direction.	Precipitation: Amount.	Precipitation: Difference from average.	Precipitation: [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SASKATCHEWAN—*Con.*																									
Regina																									
Rathmullen																									
Rosthern																									
Swift Current		66																1.68	-0.41	0.56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Saskatoon																		2.40	-0.81	1.29	7	21	0	0	0
Scott (Hearts Hill)																		2.20		0.46	7	21	0	0	0
Stanley Mission																									
The Pas		78																1.18		0.30	6	25	0	0	0
Wasera					0	3	4	8	0	1	11	1	0	31				2.22		0.75	6	25	0	0	0
Yorkton																		2.97		0.83	7	21	0	0	0
Yarbo (Fairfield)					6	5	2	1	5	2	2	3	2	31				1.01		1.14	10	21	1	[illegible]	0
MANITOBA—																									
Alnasippi																		6.19		2.40	12	19	0	7	[illegible]
a Awerne (St. Alban's)																		3.92	+2.43	1.35	12	19	4	4	4
Brandon			5	4	3	25	8	8	25	18	6	18	1	93	[illegible]	[illegible]	[illegible]	2.68	1.38	1.13	9	22	0	0	
Berens River																		[illegible]		[illegible]	8	[illegible]	0	2	
Birtle																		[illegible]		0.82	10	21	0	0	0
Carberry																		4.01		2.06	11	[illegible]	0	3	0
Carman																		4.88		1.66	10	21	0	0	0
Cypress River																		[illegible]		[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]
Dauphin																		1.89		1.25	11	25	0	0	
Hillview			4	5	11	11	6	7	16	12	8	15	1	93				3.73	1.88	0.90	9	[illegible]	1	1	
Minnedosa			5	5	5	10	7	6	1	0	5	9	19	62				2.87	1.02	0.68	11	25	1	[illegible]	
Morden																		3.36		1.63	10	[illegible]	0		
Moose Horn Bay (Aitkensville)					15	6	8	6	11	1	1	2	6	62				4.96		1.24	14	17	11	4	0
Ninga																		2.89		0.67	9	22	0		0
Oakbank																		6.24	1.30	2.56	8	23	0		0
Pipestone																		2.32		1.17	8	[illegible]	0	1	0
Portage la Prairie																		1.29	[illegible]	2.20	7	23	0	0	0
Portage la Prairie (2)																		1.17		1.30	10	21	0	0	0
Pierson																		2.71		1.15	9	[illegible]	0	0	
Stony Mountain					7	11	7	1	8	1	11	8	0	62				1.06	[illegible]	2.46	[illegible]	[illegible]	0	1	0
Swan River																		2.90		0.63	10	[illegible]	0		
Treherne																		6.48		[illegible]	13	[illegible]	3	8	
Virden																		3.21		[illegible]	6				0
Winnipeg			5	4	15	1	8	5	10	2	8	9	4	62				[illegible]	1.37	[illegible]	9	[illegible]	1	3	
ONTARIO																									
Alton																									
Aurora																		2.92	+0.12	0.75	8	23	0	[illegible]	0
Agincourt			4	1	1	1	23	7	1	6	31	20	0	93				1.85	1.71	0.82	7	21	2	6	0
Barrie			4	0	1	1	9	1	10	8	1	34	22	93	1	18	12 SW	1.50	0.97	0.36	12	19	0	8	0
Beatrice			4	5	6	1	1	7	13	7	4	13	11	93	1	[illegible]	12 SW	[illegible]	1.64	0.46	7	21	0	5	1
Bruce Mines																		1.30	-2.10	1.71	10	21	0	6	0
Birnam					11	3	4	11	16	2	4	7	1	62				2.38	0.47	0.71	8	23	[illegible]	7	1
Brantford																		0.90	[illegible]	[illegible]	6	[illegible]	0	4	0
Bloomfield																		2.21		1.77	6	2	0	1	0
Bancroft																		1.72	[illegible]	1.03	2	[illegible]	0	1	0
Copper Cliff																		[illegible]		1.26	7	21	0	3	0
Clinton					8	0	2	8	17	4	8	15	0	62				[illegible]		0.64	10	21	0	6	0
Coldwater																									
Cottam					12	1	7	1	25	4	3	3	0	62				[illegible]	2.23	[illegible]	8	23	0	0	0
Chatham																		1.27	[illegible]	0.53	4	27	0	0	0
Collingwood																		[illegible]	0.54	1.00	4	27	0	1	0
East Toronto																		1.21		0.35	7	21	0	6	0
Elora																		2.44	0.50	0.63	11	20	0	0	0
Gravenhurst					5	2	9	6	16	7	11	11	23	93	1.8	[illegible]	12 W	[illegible]	1.21	0.58	7	21	0	3	0

ONTARIO—*Concluded.*																																									
Guelph	43	33	80	16	1050					61·4	+7·8	21	90·0	28	21·0	3	24·8																	1·70	1·37	0·86	8	23	0	2	0
*a*Grimsby	43	13	79	36		29·61	29·98	29·10	0·88	61·2	—	2	97·0	29	29·0	3	26·6																	1·2	—	0·53	8	23	0	0	0
Haileybury	47	29	79	39	687	29·98	30·39	29·48	0·91	55·2	+5·0	17	90·0	19	19·7	2	23·0				10	3	3	2	4	16	3	10	11	62				2·01	1·09	0·59	10	21	4	1	0
Hamilton	43	16	79	51	303					62·8	+7·0	36	96·5	28	30·0	3	21·2																	1·7	1·07	0·53	7	21	0	0	0
Haliburton	45	1	79	8	1050					59·2	+5·5	22	95·0	22	21·0	3	33·1																	1·55	1·12	1·05	5	26	0	2	0
Huntsville	45	19	79	8						57·5	—	5	90·0	22	18·0	3	27·7																						0	0	0
Kenora	49	48	94	32	1102					48·0	−1·0	12	71·0	10	21·0	1	19·8																	0·39		0·69	7	21	2	3	1
Kakabeka Falls	48	29	89	26	912					51·6	—	3	89·0	8	17·0	5	8·8																	2·51		0·57	12	19	1	7	0
Kingston	44	13	76	29	285	30·01	30·47	29·34	1·13	57·1	+4·7	36	81·8	22	28·5	3	19·2		6	1	1	7	2	1	3	37	5	3	0	62				3·63	+1·12	1·15	11	20	0	6	1
Kinmount	44	45	78	38	920					57·2	+4·2	12	91·5	22	21·0	2-1	30·1																	2·48		0·98	11	20	0	0	0
Lucknow	43	56	81	30	908					57·8	+4·9	25	87·5	2[illegible]	21·0	3	2[illegible]·0																	3·87	+0·82	1·32	12	19	0	7	2
Lake Talon	46	15	78	48						57·5	+1·7	16	88·5	20	23·0	3	25·7																	3·11	0·16	0·68	8	25	1	4	0
London	42	59	81	13	808	30·02	30·42	29·34	1·08	62·1	+5·9	26	93·0	22	27·0	3	27·9				0	9	17	21	0	2	20	21	0	93				2·18	+0·5	0·37	8	23	0	4	0
Lakeside Home	43	40	79	21						54·1		7	85·0	28	30·0	3	21·2																						0	4	0
Lorne Park	43	32	79	37						61·4	—	3	95·0	21 28	29·0	3-5	29·7																	1·46		0·67	6	25	0	0	0
Lindsay	44	20	78	45	872					61·4	+7·3	31	93·6	28	21·0	3	27·2		1	0	11	1	2	1	10	20	16	19	10	93	1·8	4·7		2·[illegible]	[illegible]	[illegible]	11	20	0	[illegible]	0
Lakefield	44	25	78	15	850					62·0	+7·5	28	88·0	25	2[illegible]·0	3	[illegible]9·3																	[illegible]	[illegible]	[illegible]	7	21	0	2	[illegible]
*Midland	44	44	79	53	750					61·5	—	4	92·0	21 22	3[illegible]·0	2-3																		[illegible]		1·25	6	[illegible]	0	[illegible]	0
Madoc	44	30	77	29	575					61·7	—	6	92·0	28	26·0	3-1	25·7																	1·21		[illegible]	[illegible]	23	0	[illegible]	[illegible]
Montague	44	56	75	57						61·2	—	2	93·5	22	28·0	3	26·6																	1·80		0·77	[illegible]	29	2	4	0
Montreal River										55·1	—	1	91·0	28	13·0	1	28·0																	1·77		0·46	9	22	0	0	0
Matheson										52·7	—	1	93·5	27	7·0	4	29·1				6	5	0	2	10	8	11	13	6	62				0·20	—	0·72	15	18	1	3	1
*North Bruce	44	23	81	25						55·9	+3·8	23	89·0	22	29·0	2	—				0	0	5	3	30	11	25	19	0	93				3·29	+0·22	1·26	11	20	3	6	1
North Gower	45	8	75	43						—		4																						1·52		0·80	2	29	0	1	0
Owen Sound	44	34	80	55	597					58·2	+6·2	3	97·0	19	25·0	4	21·2				22	0	0	0	37	0	2	1	0	62				1·00		0·65	2	29	0	2	0
Orillia	44	37	79	21	775					61·0	—	9	92·0	28	22·0	3	26·7				1	3	2	7	7	5	0	6	0	31				1·33		0·49	5	26	0	3	1
Ottawa	45	26	75	42	294	29·97	30·43	29·31	1·09	61·6	+5·8	28	90·0	22	25·0	4	23·3				1	3	6	2	14	10	22	3	1	62				2·13	0·09	0·94	10	21	0	6	0
*Ottonabee	44	20	78	18	674					61·3	+5·4	16	91·0	22	27·0	3	—				0	0	9	0	7	35	30	12	0	93				1·68	−1·17	·83	5	2	0	3	0
Port Arthur	48	27	89	12	644	29·96	30·34	29·21	1·13	50·8	+1·9	30	80·0	28	21·0	3	22·1		5	6	7	9	12	5	1	4	6	11	2	62				[illegible]·56	+0·19	0·37	12	19	1	4	2
Port Stanley	42	40	81	13	592	30·01	30·40	29·40	1·00	58·0	+5·0	35	86·2	22	28·0	3-5	20·3		5	7	1	3	17	6	0	8	8	13	[illegible]	62				1·78	1·61	0·58	14	17	0	5	1
Port Dover	42	47	80	13	635					59·4	+6·1	30	85·5	28	25·4	4	19·2				0	1	2	5	1	9	4	6	0	31				1·78	0·98	0·55	8	23	0	1	0
Port Burwell	42	39	80	55	592					58·4		8	86·5	22	27·0	3	19·3																	2·10		0·65	6	25	0	0	0
Parry Sound	45	19	80	0	635	30·02	30·45	29·39	1·06	58·0	+6·4	35	89·0	20	23·0	3	23·4		5	4	0	5	0	8	7	20	7	7	4	62				2·27	0·78	0·73	11	20	0	6	1
Point Clark	44	5	81	44	595					—	—	39									12	3	6	5	22	6	5	3	0	62				2·15	0·42	1·00	4	27	0	2	0
Pelee Island	41	50	82	35	585					67·2	+9·9	37	99·0	19	38·5	7	14·1																	0·60	−2·16	·30	3	28	0	0	0
Paris	43	12	80	25	840					62·9	+6·5	22	95·0	22	27·0	3	27·9																	1·50	1·09	0·54	6	25	0	3	0
Peterboro	44	17	78	19	722					60·9	+5·1	42	92·0	22-28	24·0	3	23·9																	2·17	0·19	1·01	9	22	0	6	0
Porcupine										52·2	—	1	95·0	27	15·2	1	26·6																						0	0	0
Providence Bay	45	40	82	11						—	—	1	79·0	22																				2·30		0·50	10	21	0	[illegible]	[illegible]
Ronville	45	15	78	57	1038					56·6	—	4	86·0	19-28	19·0	2	26·6																	2·50		0·70	9	22	0	2	0
Renfrew	45	26	76	39	416					61·7	+6·5	21	96·5	28	21·5	4	27·4																	2·79	0·11	1·78	11	20	0	7	9
Stonecliffe (Rockliffe)	46	9	78	6	557	29·98	30·43	29·41	1·02	57·6	+5·5	33	93·0	28	20·0	3	28·0				1	1	7	1	1	0	16	2	33	62				2·81	0·66	0·80	9	22	1	[illegible]	[illegible]
Southampton	44	30	81	21	656	30·02	30·45	29·31	1·14	56·4	+1·9	31	90·0	19	27·0	3	19·6		5	6	10	2	3	8	10	17	3	8	1	62				4·11	+1·57	1·40	11	20	0	7	2
*Sarnia	42	59	82	24	586					63·1	+7·3	17	90·0	27	31·0	2																		0·15	2·91	0·15		30	0	0	0
Stratford	43	23	81	0	1191					60·8	+6·1	44	90·0	27-28	19·0	3	25·5																	2·10	0·78	1·44	4	27	0	0	0
Stony Creek	43	13	79	45	292					64·2	+5·3	27	95·0	28	30·0	3	21·9		2	2	0	16	13	2	1	39	17	5	0	93	11	VI	2 W	0·77	2·38	0·33	3	28	0	0	0
Schreiber	48	50	87	15						50·5	+2·7	13	70·1	19	17·5	1	21·9																	3·27		0·75	12	19	0	4	7
Shelburne	44	5	80	17																																					
Toronto	43	40	79	21	350	30·02	30·44	29·37	1·07	61·2	+7·6	70	90·8	28	28·5	3	21·5				5	1	23	0	3	10	12	6	2	62				2·[illegible]1	0·84	0·65	[illegible]	2[illegible]			
Uxbridge	44	5	79	8	886					60·2		7	93·0	28	25·0	3	24·1																	1·7[illegible]		[illegible]					
Uplands	45	48	79	25						57·1	+6·1	24	90·0	20	18·0	3	30·6				6	0	3	1	15	1	28	0	19	62				1·7[illegible]	1·16						
Ursa	44	51	78	18						57·7	—	1	82·0	28	22·0	2	21·2																								
White River	48	35	85	16	1252	29·9[illegible]	30·36	29·29	1·07	51·4	+5·6	21	89·0	27	12·0	3	26·3				8	6	1	3	5	1	13	2	17	62				3·01	[illegible]	[illegible]	[illegible]	[illegible]			
Woodstock	43	8	80	47	980	29·90	30·48	29·36	1·12	60·6	+7·0	36	89·0	22	25·0	3	26·9	64	6	7	3	8	1	11	7	31	13	18	1	93	8 3	22·0	11 SW	1·34	1·47	0·46	8	[illegible]	0	0	[illegible]
Welland	42	59	79	17	577					61·3	+6·3	25	93·0	22	28·0	3	25·1																	1·38	1·52	0·70	6	2[illegible]	0	0	0
Windsor	42	20	83	4	625					63·9	+1·2	36	90·0	29	32·0	3	20·8																	2·13	0·78	0·35	12	19	0	0	0
Wallaceburg	42	35	82	24						63·5	—	6	92·0	27	31·0	2	21·8																	3·04	—	1·80	8	23	0	0	0
QUEBEC—																																									
Abitibi	48	13	79	22						51·1	+3·8	15	85·0	19 27	16·0	4	21·9		6	5	15	8	11	5	14	5	28	7	0	93	III	V	29 W	1·33	1·88	0·53	5	26	0	0	1
*Anticosti, E. Point	49	6	61	42	30					39·6	−0·1	25	54·0	30	35·0	3	—				7	6	13	2	3	22	24	6	10	93				1·23		1·23	1	30	0	0	13
*Anticosti, W. Point	49	52	64	32	30					42·8	+1·5	29	61·0	20	30·0	3					1	9	15	3	26	2	13	21	0	93				2·43	0·37	0·61	9	22	0	0	1
Brome	45	10	72	36	678					59·0	+5·6	30	90·0	31	25·0	4	21·1				11	1	2	0	16	5	53	1	4	93				1·54	1·71	[illegible]	5	26	0	4	0
*Bicquet	48	25	68	53						44·1	+1·1	28	78·0	21	30·0	[illegible]	—				6	39	0	0	0	2	31	9	3	93				1·25	1·2[illegible]	·60	3	28	0	0	11
Clarke City	50	10	66	25																																					
*Cape Chatte	49	6	66	15						46·6	+2·4	29	69·0	21	33·0	3	1				1	1	21	0	1	11	26	1	28	93				0·85	1·22	0·60	4	27	0	1	8
*Cape Magdalen	49	16	65	20	93					46·6	+2·7	29	72·0	19	30·0	4					6	2	5	3	11	8	10	27	21	93				3·02	1·17	0·60	12	[illegible]	1	[illegible]	6
Chicoutimi	48	25	71	5	150					55·0	+5·6	33	94·7	21	27·0	4	21·1		7	5	0	4	0	35	0	41	0	13	0	93	IV	IX	11 SE	1·[illegible]6	1·28	0·29	12	19	1	[illegible]	1
Chicoutimi (2)										54·6	—	1	93·0	20	27·0	4-5	21·1																						0	[illegible]	1
Cap Rouge										—	—	1	91·0	22	30·2	13	—																	1·5[illegible]		0·97	6	[illegible]	0	0	0
Disraeli	45	55	71	21						58·8	—	4	90·5	22	26·5	14	36·1																	2·4[illegible]		0·82	7	24	0	4	0
Father Point	48	31	68	19	20	29·91	30·40	29·24	1·16	48·7	+4·4	33	77·7	21	32·0	3-4	16·5		7	14	1	9	5	0	1	15	19	4	5	62				2·2[illegible]	0·71	0·72	11	2[illegible]	0	1	1
Lake Edward	47	39	72	15	1333					55·2	—	1	87·8	22	19·5	4	24·8																	2·73		0·82	6	[illegible]	0	1	0
Montreal	45	30	73	35	187	29·96	30·45	29·36	1·09	62·7	+7·[illegible]	36	88·7	20-21	27·7	4	18·7		4	2	8	3	6	4	7	14	19	1	0	62				2·30	0·30	1·2[illegible]	[illegible]	20	1	7	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of rain days.	No. of snow days.	No. of [illegible]	No. of [illegible]
Quebec—*Concluded.*																																								
Perkin's Mills.																																								
Quebec	46 48	71 13	296	29.91	30.43	29.32	1.11	58.0	[illegible]	36	91.4	23	23.6	1	23.2			5	5	1	3	1	2	5	15	10	7	1	62				2.06	[illegible]	[illegible]	9	[illegible]	2	[illegible]	0
*Roberval.	48 31	72 13	332																																					
St. Anne de Bellevue	45 27	73 59						61.7			93	21	28.0	1	23.2																		2.15		1.44	12	10	0	0	0
Shawinigan Falls.	46 34	72 43						56.6			93.0	28	19.0	1	26.8																		1.26		0.61	5	29	0	4	0
Sherbrooke.	45 32	72 5	620					60.0			92.0	22	26.9	1	25.7																		0.75		0.2[illegible]	6	25	1	3	3
Shawbridge.	45 51	74 3																																						
New Brunswick—																																								
Chatham	47 3	65 29	21	29.97	30.4[illegible]	29.3	1.08	5[illegible].1	[illegible]	36	[illegible]	21	27.[illegible]	[illegible]	26.2			5	3	1	5	18	2	0	11	17	5	0	62				2.63	0.19	1 [illegible]	6	25	0	[illegible]	[illegible]
Dalhousie	48 4	66 22	39					52.0		[illegible]	86.0	21	23.0	1	22.7					0	0	11	3	0		5	4	1	31				1.[illegible]							
Fredericton	45 57	66 36	164	29.99	30.4[illegible]	29.30	1.14	5[illegible].6	[illegible]	15	8[illegible]	21	21.[illegible]		2[illegible].4		60	5	4	2	8	11	6	11	20	13	22	0	93	9.[illegible]	47	[illegible] 3 N.W.	0.68	[illegible]	[illegible]	4	27	0	2	0
Grand Manan	44 47	66 46	49	30.00	30.38	29.41	0.96	[illegible]	[illegible]	26	96.0	17	31.0		19.0					2	1	1	[illegible]	6	11	1[illegible]	8	6	62				0.17	[illegible]	[illegible]	6	2[illegible]	0	1	[illegible]
Moncton	46 9	64 45	40					5[illegible].2	[illegible]	14	[illegible]	22	27.0	1	26.8																		0.[illegible]	[illegible]	[illegible]	2	29		2	0
*Point Lepreaux	45 4	66 28	50					46.6	[illegible]	33	62.0	16	32.[illegible]	1				1	3	5	1	1	3	1	28	15	8	0	81	11	18	[illegible] 3 N.W.	0.16	[illegible]	[illegible]	1	[illegible]		0	10
St. John	45 17	66 4	70	30.01	30.37	29.45	0.92	50.9	[illegible]	38	72	22	31.0	1	1[illegible].7			5	3	3	3	5	10	20	1	3	5	2	62				0.[illegible]	[illegible]	[illegible]	7	24	1	[illegible]	[illegible]
St. Stephen.	45 11	67 16	35					56.4	[illegible]	11	92.0	22	20.0		[illegible]																		0.2[illegible]	[illegible]	[illegible]	1	[illegible]	0		
Sussex	45 38	65 38	60					5[illegible].8	[illegible]	11	90.0	22	25.0		[illegible]					0	2	0	0	0	10	2	2	15	31				0.51		[illegible]	3	[illegible]			
Nova Scotia—																																								
Antigonish	45 38	61 59	50					52.6		1	82.0	9	12.0	16	25.9																							[illegible]	[illegible]	
Halifax.	44 39	63 36	88	30.03	30.37	29.45	0.89	53.0	[illegible]	36	88.7	22	29.6	5	24.7					1	7	1	[illegible]	10	8	21	9	0	62				1.39	2.28	0.4	8	23	0	1	2
Port Hastings	45 39	61 22	45					53.9	[illegible]	20	88.0	2[illegible]	23.0	4	21.6					0	5	0	6	3	12	0	5	0	31				1.[illegible]	1.[illegible]	0.7[illegible]	4	27	0	[illegible]	
Parrsboro'.	45 23	64 19	10					52.0	[illegible]	15	78.0	22	26.0	16	26.2																									
Sydney.	46 10	60 10	35	30.01	30.41	29.51	0.90	50.0	[illegible]	37	75.0	27	29.0	19	22.1			7	11	8	5	2	1	3	15	17	8	3	62				1.0[illegible]	2.15	0.3[illegible]	7	21	0	[illegible]	[illegible]
*Sable Island, E. Point.	43 58	59 46	2[illegible]					47.7		29	64.[illegible]	29	37.0	3						5	5	0	3	1	5[illegible]	0	24	0	93				3.06	0.52	2.[illegible]	7	[illegible]	0	[illegible]	12
Truro	45 22	63 18	77					52.7	[illegible]	36	84.3	22	23.6	17	27.5			5	3	6	9	2	3	15	33	21	4	0	73				1.32	1.71	[illegible]	6	25			[illegible]
Windsor.	44 59	64 6	90					5[illegible].6		[illegible]	85.0	22	26.5	5	21.6																		1.26		[illegible]	6	2[illegible]	0	1	[illegible]
*Whitehead.	45 15	61 8	20					41.5	[illegible]	[illegible]	5[illegible]	27 31	35.0	4 16																			0.6[illegible]	1.1[illegible]	[illegible]	1	[illegible]			1[illegible]
a Wolfville	45 7	64 2[illegible]		29.91	30.30	29.40	0.90	55.6	[illegible]	12	8[illegible].5	22	28.6		[illegible]					3	0	5	0	2	13	21	11	7	62				0.[illegible]	1.76	[illegible]	[illegible]	2		2	[illegible]
Yarmouth	43 50	66 2	65	30.05	30.39	29.52	0.87	5[illegible].5	[illegible]	30	71.8	23	28.4	5	16.4					5	1	4	4	6	[illegible]	6	7	5	62				1.[illegible]	2.16	[illegible]	8	[illegible]	0	1	[illegible]
P. E. Island—																																								
Charlottetown.	46 14	63 10	38	30.00	30.36	29.45	0.91	52.3	+ 1.0	35	80.5	22	29.5	11	21.0					1	8	4	2	12	16	15	4	0	62				0.40	2.36	[illegible]	7	24	0	2	0
Charlottetown (2).	46 14	63 7	75					53.2	—	1	83.0	22	28.0	17	23.6																		0.32		0.13	6	25	0	1	0
Hamilton.	46 25	63 18						51.1	+ 1.3	13	80.0	22 23	30.0	10	11 20.3					1	5	0	0	0	19	6	0	0	31				0.32		0.21	2	29	0	0	0
Newfoundland—																																								
*Amour Point.	51 28	56 51						35.2	[illegible]	27	42.0	14 29	28.0	16						8	1	24	0	0	0	51	9	0	93				0.52		0.1[illegible]	2	29	0	0	3
Burin.	47 0	55 10	27																																					
*Cape Norman.	51 38	55 52						34.[illegible]	[illegible]	28	40.0	21	6.0	16						3	18	11	7	1	0	28	25	0	93				1.7[illegible]	[illegible]	0.15	7	[illegible]	1	0	2
Fogo	49 43	54 17	30	29.94	30.42	29.42	1.00	41.2		1	62.0	9	28.0	11	17 13.7					5	6	6	1	1	9	2	3	3	62				3.86	0.15	0.64	17	14	0	0	2
*Point Rich.	50 42	57 25	35					36.1		27	49.0	23	30.0	3						9	3	19	3	6	22	30	1	0	93				0.50	2.04	[illegible]	1	30	0	0	8
Port aux Basque	47 35	59 10	27	29.97	30.37	29.44	0.93	40.[illegible]		2	60.5	9	29.5	6	11.1					4	1	26	1	2	4	13	8	0	62				3.80		0.97	16	1[illegible]	0	0	6
St. John's.	47 34	52 42	125	29.89	30.26	29.22	1.04	45.1	[illegible]	38	70.0	21	25.0	20	18.9					6	8	2	0	11	20	10	5	0	62				2.87	0.52	0.86	12	19	0	[illegible]	3
Bermuda—																																								
Prospect	32 17	64 30	151	30.16	30.35	29.95	0.36	69.1	+ 0.6	20	79.8	21	58.4	2	11.8					5	1	13	8	19	3	5	5	0	62				2.82	−1.57	1.18	7	24	0	1	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING MAY, 1911.

STATIONS.	TEMPERATURE					PRECIPITATION.				REMARKS
	Amount in inches	No. of Days ·01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days	Heaviest Fall in Month	Date	
BRITISH COLUMBIA—										
Alkali Lake	1·10	1	20	1·00	12					
Anms	1·17	13	18	0·24	16					Thunder on 5.
Beaver Lake	2·25	8	23	[illegible]	4					
Coquitlam	5·65	10	21	1·60	8					
Denman's Island	4·76	10	21	2·20	4					
Ferguson	2·09	14	17	0·42	16					
Goldstream Lake	2·40	15	16	0·59	12					
Hydraulic	1·49	8	23	0·70	5					
Hornby Island	3·68	10	21	1·02	5					
Jordan River	4·17	14	17	1·00	4					
Jordan River (Bear Creek)	5·26	12	19	1·30	5					
Little Qualicum (French Creek, V.I.)	2·75	9	22	0·96	5					
Monte Creek	0·15	5	26	0·06	3					
Naas Harbour	2·71	9	22	0·80	10					
Skidegate	1·24	7	24	0·62	11					
Shawnigan Lake	2·38	14	17	0·47	4					
ALBERTA—										
Bardo	1·42	4	26	0·46	18	0·3	1	0·3	10	
Bismark	0·58	3	28	0·26	16	*	1	*	21	
Bruederheim	1·81	9	21	0·86	17	*	1	*	25	Thunder on 5.
Bittern Lake	1·35	11	20	0·41	18					
Bantry										
Brooks	2·27	8	22	0·93	23	*	1	*	23	
Conjuring Creek										
Coutts										
Campsie	1·47	8	23	0·44						
Caldwell	1·14	10	19	1·20	16	8·5	2	5·0	22	
Dorenlee	0·99	5	26	0·42	24					
Dunstable	1·89	11	20	0·80	18					Thunder on 29.
Elkwater										
Grassy Lake	2·50	2	29	1·60	19					
Jumping Pound	2·72	4	26	1·90	11	10·0	1	10·0	22	
Lacombe	1·43	4	27	1·05	17					Thunder on 5.
Langdon										
Loch Sloy	2·26	9	20	0·89	16	10·5	2	7·0	23	Thunder on 19.
Lyndon	0·59	3	28	0·24	13					
Lineham	2·00	1	29	2·00	14	1·8	1	1·8	22	
Macleod	3·71	14	17	0·66	13					
Minda (Many Berries Ranch)										
Maycroft	2·63	5	25	1·17	14	8·2	1	8·2	22	
Mayton										
Okotoks	2·03	6	24	0·62	14	8·3	1	8·3	23	
Playle Creek	3·27	10		0·85	13	*	3	*	22 25-27	
Ponoka	1·34	4	27	0·82	17					
Pekisko	4·22	10	19	1·27	15	14·0	2	8·0	23	
Sion	2·19	11	17	0·61	17					Aurora on 1, 2, 7, 21, 24, 26, 27, 28, 29, 30.
Seven Persons	1·64	6	25	0·40	13					
Tilley										
SASKATCHEWAN—										
Carmichael	0·01	1	29	0·01	28	3·5	1	3·5	1	
Coulee										
Elm How										
Forks Swift Current (Gull Lake)	1·61	11	20	0·39	14					Thunder on 11, 28.
Gull Lake	0·76	5	26	0·23	23					
Hanley										
Kindersley	8·00	7	24	3·56	23					
Kelvinhurst	1·47	7	24	0·40	16					Thunder on 16.
Last Mountain										
Maple Creek	1·20	11	20	0·34	23					
Willow Creek	0·32	5	26	0·09	13					
MANITOBA—										
Cartwright	3·12	11	20	1·05	11					Aurora on 14. Thunder on 9, 13, 17, 18, 24.
Deloraine	5·97	10	21	3·00	11					Thunder on 9.
Gretna	5·46	7	23	1·78	11	4·0	1	4·0	11	Thunder on 17, 21.
Norquay	2·34	9	21	1·65	25	14·0	1	14·0	11	
Rapid City	3·23	8	23	1·35	27					
Rosebank	4·63	8	22	1·75	11	*	1	*	11	
ONTARIO—										
Arden										
Deer Park	2·03	8	22	0·83	1	0·3	1	0·3	4	Thunder on 1, 18, 23, 31.
Dutton	0·40	2	29	0·30	1					Thunder on 1, 10, 18, 19, 22, 23, 28.
Emsdale	2·43	11	20	0·66	2					
Goderich										
Georgetown	1·87	8	22	0·76	1	0·1	1	0·1	3	Aurora on 1, Thunder on 1, 11, 17, 18, 20, 22, 31.
Grantham	1·37	7	23	0·51	23	*	1	*	3	
Grand Valley	2·50	10	20	0·61	17	1·0	1	1·0	2	
MacCue	1·29	7	24	0·39	1					
Orangeville	1·64	7	23	0·54	13	0·8	1	0·8	3	
Princeton	2·30	5	26	1·06	5					
Sydenham	3·00	4	27	1·15	1					
Strathroy	2·54	5	25	1·23	31	1·0	1	1·0	2	
Watford	2·23	7	24	0·78	1					Thunder on 18, 22, 23, 21, 27, 28, 31.
Westport	1·56	5	25	0·30	18	0·3	1	0·3	3	
Wooler	1·43	5	26	0·46	31					Thunder on 18, 19, 28.
Westminster	1·46	4	27	0·59	23					Thunder on 1, 11, 22, 31.
Wiarton										
Wesley	2·22	10	20	0·62	17	0·5	1	0·5	3	Thunder on 1, 11, 17, 20, 31. Fog on 1.
QUEBEC—										
Timiskaming										
Quinze Dam										
Perkins Mills	4·92	9	22	3·25	23					Thunder on 23.
NEW BRUNSWICK—										
Point Escuminae	0·20	3	28	0·09	22					Aurora on 14, Fog on 22, 23, 25, 28.

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF MAY, 1911.

Stations	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	
	Hours Ending																
Victoria		07	25	36	42	40	51	60	62	62	54	57	46	40	14		
Nanaimo		03	24	44	45	46	44	51	53	52	47	48	37	37	30	02	
Vancouver		10	34	40	35	41	51	49	43	49	46	44	47	43	23		
Agassiz			21	26	31	35	36	42	40	47	46	30	40	27	12		
Tranquille		24	43	40	61	64	63	64	63	56	46	50	43	37	34	10	
Summerland		26	48	46	58	54	57	65	62	54	43	47	55	45	23		
Kamloops	4	23	46	50	62	67	64	66	65	67	66	57	47	40	30	03	
Edmonton	01	30	51	54	57	65	65	67	54	54	52	47	46	48	33	07	
Lethbridge	02	20	38	51	60	65	58	60	54	5	50	38	37	31	25	13	01
Lacombe	11	34	51	60	6	57	54	62	57	50	52	53	41	47	37	12	
Medicine Hat	04	21	40	48	62	70	63	66	64	63	62	58	57	47	34	07	
Fort Vermilion		18	30	51	50	64	77	77	74	79	71	73	59	29	04		
Battleford		06	20	35	37	43	54	35	36	41	37	31	29	22	06		
Indian Head		22	49	44	54	59	60	62	62	60	56	52	48	43	34	08	
Moosejaw	13	44	54	50	58	59	59	62	60	61	62	56	50	49	41	09	
Scott	05	50	39	40	50	47	51	53	54	56	58	49	51	47	36	05	
Rosthern	07	37	48	54	56	55	55	52	56	51	54	49	49	43	34	07	
Brandon	05	09	39	58	62	63	60	60	60	50	54	51	50	38	08	02	
Winnipeg		29	45	50	54	58	57	60	59	53	53	55	54	38	24		
Haileybury	02	38	52	58	57	57	61	58	62	68	71	68	59	58	44	06	
Woodstock	02	17	59	68	72	70	76	71	68	70	74	74	75	75	22	01	
Lindsay			17	48	80	78	73	76	73	71	73	73	65	40	31		
Barrie		20	52	69	66	68	68	66	71	71	61	62	62	56	08		
Toronto		06	22	75	80	79	75	68	72	79	73	71	71	70	26		
Kingston	01	26	62	71	73	76	81	84	78	80	77	74	67	54	25	04	
Ottawa		26	62	73	73	74	75	76	78	76	77	73	58	52	31		
Montreal		14	50	61	68	75	74	75	73	74	70	63	29	17			
Quebec		21	36	51	64	69	65	69	72	73	74	71	64	51	13		
Sherbrooke	03	36	57	65	74	66	61	63	69	72	74	67	62	53	23	02	
Fredericton		22	46	59	61	64	71	72	73	69	66	70	65	56	39	01	
Charlottetown	01	37	54	60	67	69	70	72	69	70	66	60	61	52	27	01	

—	Victoria.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Scott	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottet'wn.	Dunvegan.
Registered duration in hours.	185	182	175	141	223	213	235	226	199	231	237	231	127	224	216	207	219	209	213	252	276	247	248	268	289	280	228	245	262	257	259	..
Percentage of possible duration ...	39	38	36	30	46	44	48	46	42	47	50	46	26	47	51	42	44	44	44	54	60	54	54	59	63	60	57	53	56	55	56	..
Difference from average	+ 3			+ 0									14	1				4	6		+17	+ 7	+9	+10	+15	+13	+ 7	+12	..	+11	..	..
Maximum percentage in one day ...	83	83	83	80	91	90	93	91	94	94	93	76	79	89	96	89	96	82	93	96	88	96	86	84	94	93	90	87	94	92	94	..
Date of maximum	31	30	31	31	14	1	31	7	30	6	30	2	31	1	2	5	7	17	3	5	6	30	27	4	6	4	6	5	6	6	5	..
No. of days completely clouded.......	5	9	7	9	2	2	3	2	7	4	1	3	6	8	7	5	8	3	6	3	1	3	0	1	2	1	1	1	0	2	1	..

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Sion, Threehills Creek, IV; Red Deer, IV; Aitkensville, IV; Peace River Crossing, IV, Muenster, IV.

2. Sion, Red Deer, IV; Aitkensville, IV; Chilcoten, IV.

4. Waitefield, II.

6. Threehills Creek, II; Red Deer, I; Hillsdown, III; Matheson, III, Grenfell, II; Melfort, II; Haileybury, IV; Kenora, IV.

7. Sion, Waitefield, II; Threehills Creek, III; Red Deer, I; Hillsdown; IV; Halkirk, Aitkensville, IV; Kakabeka Falls, III; Chicoutimi, Crescent Lake, III; Brownhill, III; Toronto, IV; Aweme, IV.

13. Chilcoten, II.

14. Cartwright, II; Point Escuminac, III; Waitefield, II; Red Deer, I; Pakan, Hillview, I; Aitkensville, III; Treherne, II; Aweme, I; Montague, Cap Magdalene, Sherbrooke, Crescent Lake, III; Grenfell, II; Melfort, IV; Muenster, Cannington Manor, St. John, II; Montreal, III; Winnipeg, II; Haileybury, III; Fort St. James.

15. Aitkensville, IV; Esterhazy, IV; Port Arthur, I.

16. Aitkensville, IV; Aweme, II; Agincourt, IV.

17. Threehills Creek, IV; Red Deer, I; Aitkensville, IV.

18. Southampton, IV.

20. Red Deer, IV; Kenora, IV.

21. Sion, Red Deer, IV; Aitkensville, IV.

22. Aitkensville, III.

23. Chilliwaek, IV.

24. Sion, Chilliwack, IV.

26. Sion, Red Deer, IV.

27. Sion, Red Deer, IV; Quebec, IV; Haileybury, IV.

28. Sion, Aitkensville, IV.

29. Sion, Haileybury, III.

30. Sion, Georgetown, IV; Red Deer, IV; Aitkensville, III; Aweme, II; Agincourt, IV; Montague, Lake Talon, Crescent Lake, III; Grenfell, IV; Chaplin, IV; Stonecliffe, II; Quebec, III.

31. Threehills Creek, III; Red Deer, IV.

Thunder recorded :

1. Georgetown, Deer Park, Westminster, Wesley, Emsdale, Agincourt, Beatrice, Bloomfield, Ronville, Paris, Lucknow, East Toronto, Clinton, Brantford, Birnam, Uplands, Midland, Brome, Sherbrooke, Montreal, Parry Sound, Toronto, Gravenhurst, North Bruce, Barrie.

2. Chatham, N.B.

4. Charlottetown.

5. Bruederheim, Waitefield, Wetaskiwin, Threehills Creek, Alix, Annis, Salmon Arm.

6. Cannington Manor.

7. Chicoutimi.

8. Chaplin.

9. Deloraine, Rapid City, Cartwright, Halkirk, Hillview, Treherne, Carberry, Almasippi, Oakbank, Aweme, Esterhazy, Indian Head, Crescent Lake, Cannington Manor.

10. Emsdale, Almasippi, Beatrice, Copper Cliff, Ronville, Lucknow, Kakabeka Falls, Birnam, Bruce Mines, Providence Bay, Kenora.

11. Georgetown, Westminster, Wesley, Oakbank, Lakefield, Renfrew, Peterboro', Lucknow, Lake Talon, Kakabeka Falls, Birnam Aurora, Uplands Schreiber, Providence Bay, Matheson, Port Stanley, Parry, Sound, Winnipeg, Port Arthur, Stoney Mountain, Lindsay, London, Barrie.

12. Matheson, Brome, Chicoutimi, Grand Manan, Montreal, Kingston, Quebec.

13. Rapid City, Cartwright, Hillview, Treherne, Ninga, Almasippi, Morden, Aweme, Grand Forks, Prineeton, Esterhazy, Crescent Lake, St. John, Haileybury.

14. Oakbank, Gull Lake, Glenbryan, Winnipeg, Kenora.

15. Providence Bay.

16. Balcarres, Treherne, Ninga, Carberry, Point Clark, Peterborough, Kakabeka Falls, Birnam, Pt. Dover, Kelvinhurst, Esterhazy, Indian Head, Crescent Lake, Chaplin, Cannington Manor, Saskatoon.

17. Cartwright, Gretna, Georgetown, Wesley, Treherne, Almasippi, Morden, Point Clark, Collingwood, Lakefield, Renfrew, Lucknow, Lake Talon, Kakabeka Falls, Birnam, Bruce Mines, Aurora, Sehreiber, Providenee Bay, Crescent Lake, Port Arthur, Gravenhurst, North Bruce.

18. Cartwright, Georgetown, Wesport, Wooler, Deer Park, Emsdale, Treherne, Agincourt, Otonabee, Orillia, Madoc, Peterboro', Kakabeka Falls, East Toronto, Birnam, Chileoten, Parry Sound, Toronto, Kingston, Port Arthur, Barrie.

19. Wooler, Emsdale, Almasippi, Morden, Beatrice, Copper Cliff, Otonabee, Lakefield, Montague, Orillia, Peteroboro', Madoc, Lucknow, Lake Talon, Kakabeka Falls, Haliburton, Clinton, Birnam, Bruce Mines, Uplands, Sehreiber, Midland, Lake Edward, Parry Sound, Ottawa, Kingston, Gravenhurst, Lindsay, London, North Bruce.

20. Georgetown, Wesley, Agincourt, Beatrice, Point Clark, Otonabee, Owen Sound, Lucknow, Haliburton, East Toronto, Clinton, Birnam, Bruce Mines, Aurora, Matheson, Midland, Chicoutimi, Lake Edward, Cape Clear, Chicoutimi West, Father Point, Parry Sound, Gravenhurst, Lindsay, North Bruce, Barrie.

21. Threehills Creek, Beatrice, Point Clark, Otonabee, Renfrew, Lucknow, Lake Talon, Haliburton, East Toronto, Clinton, Midland, Shawinigan Falls, Lake Edward, Chicoutimi West, Moncton, St. Stephen, Chatham, N.B., Father Point, Port Stanley, Toronto, Quebec, Gravenhurst, London, Wolfville, Barrie.

22. Georgetown, Westport, Westminster, Emsdale, Waitefield, Treherne, Agincourt, Copper Cliff, Owen Sound, Montague, Orillia, Renfrew, Lucknow, East Toronto, Brantford, Bruce Mines, Aurora, Uplands, Port Dover, Midland, Sussex, St. Stephen, Windsor, N.S., Glenbryan, St. John, Montreal, Port Stanley, Toronto, Ottawa, Gravenhurst, Barrie.

23. Westport, Deer Park, Emsdale, Perkin's Mills, Agincourt, Otonabee, Lakefield, Montague, Renfrew, Peterboro', Paris, Madoc, Lucknow, Lake Talon, Haliburton, East Toronto, Clinton, Brantford, Birnam, Bruce Mines, Port Dover, Midland, Bronte, Shawinigan Falls, Sherbrooke, Lake Edward, Princeton, Cranbrook, Montreal Port Stanley, Ottawa, Kingston, Southampton, Lindsay, London, North Bruce, Barrie.

24. Rapid City, Cartwright, Gretna, Westport, Hillview, Treherne, Carberry, Almisippi, Oakbank, Morden Aweme, Madoc, Otonabee, Peterboro', Shawinigan Falls, Cannington Manor, Montreal, Ottawa, Kingston, Winnipeg, North Bruce, Kenora.

25. Otonabee, Matheson, O'Kanagan Mission.

26. Rapid City, Brandon, Hillview, Treherne, Almasippi, Oakbank, Morden, Aweme, Schreiber, Chicoutimi West, Grand Forks, Hope, Port Arthur.

27. Westport, Chicoutimi, Chicoutimi West, Grand Forks, Winnipeg.

28. Westport, Wooler, Emsdale, Lakefield, Montague, Renfrew, Peterboro', Madoc, Lake Talon, Bronte, Chicoutimi, Ottawa, Shawinigan Falls, Sherbrooke, Lake Edward, Moncton, Gull Lake, Father Point, Montreal, Parry Sound, Quebec, Toronto.

29. Dunstable, Clinton, Birnam, Sussex, St. Stephen, Port Hastings Crescent Lake, Halifax, St. John, Chatham, N.B.

30. Charlottetown, Yarmouth, Wolfville.

31. Georgetown, Westport, Deer Park, Westminster, Wesley, Waitefield, Agincourt, Bancroft, Otonabee, Renfrew, Paris, Madoc, East Toronto, Clinton, Brantford, Birnam, Bruce Mines, Aurora, Port Dover, Providence Bay, Father Point, Montreal, Port Stanley, Toronto, Ottawa, Kingston, Lindsay, Barrie.

FORECASTS FOR MAY, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1294. These were divided as follows:—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Percentage.
Alberta	81	66	14	4	86·9
Saskatchewan	88	69	15	4	86·9
Manitoba	90	73	13	4	88·3
Lake Superior	118	82	28	8	81·4
Georgian Bay	120	96	20	4	88·3
Ottawa Valley	111	89	19	3	88·7
Upper St. Lawrence	111	89	19	3	88·7
Lower Lakes	120	92	23	5	86·2
Lower St. Lawrence	110	81	22	7	83·6
Gulf	110	77	25	8	81·1
Maritime Provinces West	117	78	29	10	79·1
Maritime Provinces East	115	81	24	10	80·9
Total	1250	953	241	70	84·9

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. JUNE, 1911. No. 6.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

To the west of the Fraser River the month of June in British Columbia was a little cooler than usual, but in the eastern portion of the province mean temperatures were either average or a little higher. A frost occurred in many parts of the interior about the 19th or 20th, causing some local damage to vegetables. Rain fell in the interior valleys on from five to nine days, in many instances accompanying thunderstorms. On the northern coast and in northern Vancouver Island, and locally in the Cariboo districts, the rainfall was more than average. Temperatures of 80° or higher were recorded in the lower interior on seven or eight days, and 90° on the 12th at Kamloops, Enderby, Tranquille, and other points in that vicinity.

Warmer weather than is average for June prevailed over the greater part of Alberta. Frost occurred at the end of the first week, and was severe at Athabasca Landing, Lunnford, and other points well to the northward, as well as the higher altitudes in the western portion of the province, in the foothills of the Rockies. At lower elevations and in the eastern portion the frost was light. Thunderstorms, accompanied by heavy rains, occurred frequently during the last two weeks in eastern districts. Hail fell heavily about the 23rd in that district lying to the east of Edmonton and to the north of Medicine Hat. In the southeast the rainfall was very much lighter and at a few points less than normal.

Although light frosts were recorded about the 7th and 9th, and again in eastern Saskatchewan on the 27th, the month was on the whole much warmer in that province than usual. From the 16th to the 21st temperatures of 80° and 90° were registered. In northern and northwestern districts the rainfall was generally heavy, but elsewhere was for the most part less than average. Thunderstorms, accompanied by heavy showers, occurred in most places about the 25th but very few places recorded hail.

High temperatures and considerably less than normal rainfall in most districts characterized the weather of June in Manitoba. Showers occurred on an average of ten days, but were usually very light. In central-southern districts a heavy rainfall occurred on the evening or night of the 21st, amounting in some localities to between three and four inches. From the 17th to the 23rd high temperatures were recorded daily, exceeding 90° at many places and 100° at a few. 102° was recorded at Aweme on the 19th.

In the Thunder Bay, Rainy River, and Algoma districts of Ontario the month was warmer than average and the rainfall generally very heavy. In the peninsula mean temperatures did not differ very much from average, but in the Ottawa Valley and along the Upper St. Lawrence the weather was somewhat cooler than normal. Throughout the peninsula no rain occurred from about the 15th to near the end of the month, and in consequence the total rainfall was considerably less than normal. In the eastern districts the normal amount was, however, almost generally exceeded.

Mean temperatures were but little below normal in western Quebec, but in the eastern portion of the province were considerably higher. Precipitation was deficient along the Middle St. Lawrence and in northern Quebec.

Throughout the Maritime Provinces the average temperature of the month was higher than normal. From the 12th to the 24th showers were of frequent occurrence in New Brunswick, very severe thunderstorms occurring about the 19th and 20th in many localities. The rainfall in this province was everywhere in excess of normal, but in Nova Scotia, except in the northern counties, there was a deficiency; while in Prince Edward Island conditions were nearly normal.

ATMOSPHERIC PRESSURE.

The mean value of the atmospheric pressure for June closely approached the normal throughout Canada. On the Lower Mainland and Vancouver Island of British Columbia the average was slightly exceeded, as was also the case from Eastern Alberta to the Rainy River District of Ontario, and very locally in the Upper St. Lawrence Valley; elsewhere the pressure was sub-normal.

Departures from average were small, the extremes being 0.04 of an inch, positive at Victoria, B.C., and negative at St. John, N.B.

HIGH AREAS.

The high areas of June were of the customary summer type, and passed slowly across the continent. Of the paths of seven which were traced, five were first observed over the North Pacific States, and these drifting eastward to the Lake Region, drew southwards and off the South Atlantic Coast, hovering there for some days. The two remaining areas travelled from the far Northwest, north of the Lake Region and over the Maritime Provinces. Pressure was high along the Pacific Coast for a considerable part of the month.

LOW AREAS.

Ten areas of low pressure were sufficiently well defined to admit of their paths being more or less accurately traced, while there were one or two minor depressions which were too indefinite to chart. One area first appeared in the Yukon Territory, one on the Northern British Columbia coast, one in the interior of British Columbia, one in Northern Alberta, four in the West Pacific States, one in the South Pacific States and one off the South Atlantic coast.

Only three of the areas traversed the continent, while four appear to have dispersed in the Canadian Western Provinces, two over the Great Lakes and one in the Lower Mississippi Valley. The area which appeared in the Yukon Territory on the 8th, after reaching the Maritime Provinces on the 14th, hovered there until the 21st, when it passed to Newfoundland.

TEMPERATURE.

In the western districts of British Columbia mean temperatures were from 1° to 3° below the normal, while in the southeast the normal mean was exceeded by from 1° to 2°. In southern Alberta there was an excess of 4° to 6°, but in some parts of the north and west less than normal warmth was reported. In Saskatchewan the excess over normal temperature ranged from 3° to 5°, and in Manitoba was about 3°; in the Lake Superior districts of Ontario and the Georgian Bay counties, about 2°. In the peninsula of Ontario both excess and deficiency were reported, but in few cases exceeding 1°, while in the eastern counties there was a general deficiency of about 1°. Temperatures were nearly normal in Western Quebec, but along the Middle and Lower St. Lawrence were 2° to 3° higher. An excess of 2° to 3° was computed for the Maritime Provinces.

The highest and lowest temperatures recorded in each Province during the month of June, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	93° at Grand Forks on the 12th... and at Revelstoke on the 1st..	25° at Atlin on the 1st, and at Hedley on the 19th.
Alberta,	93° at Medicine Hat on the 18th	24° at Pembina on the 7th.
Saskatchewan	94 at Chaplin on the 19th	29° at Quill Lake on the 27th.
Manitoba	102° at Aweme on the 19th	26° at Pipestone on the 27th.
Ontario	97° at Chatham on the 10th	29·5° at Matheson on the 24th.
Quebec	94° at Chicoutimi on the 7th	34·2° at Lake Edward on the 25th.
New Brunswick	86° at St. Stephen on the 9th	35° at Dalhousie on the 23rd. 35° at Moncton on the 3rd–11th. 35° at St. Stephen on the 6th–25th.
Nova Scotia	85° at Port Hastings on 5th–12th	28° at Port Hastings on the 3rd.
P. E. Island,	80° at Charlottetown on 19th–26th	34·5° at Charlottetown on the 4th.

PRECIPITATION.

On the northern coast, on northern Vancouver Island and locally in the Cariboo district, the rainfall of British Columbia exceeded the normal, but over the greater part of the province there was a deficiency. In the southeastern districts of Alberta less than the normal rainfall was recorded, but elsewhere there was an excess. Battleford, Prince Albert and Saskatoon reported heavy rainfall, but elsewhere in Saskatchewan there was a slight deficiency. Except at Portage la Prairie and other points in the south-central portion of Manitoba, where a very heavy rainfall measuring about four inches occurred on the 2 st, the precipitation of the month in that Province was somewhat less than the normal. Precipitation was heavy in the Lake Superior districts of Ontario, and there were local excesses in the eastern counties, but over the peninsula there was much less than the average rainfall. Along the Middle St. Lawrence and in Northern Quebec there was a deficiency, and also in Nova Scotia, except in the northern counties. In New Brunswick there was a general excess, while in Prince Edward Island the amount was normal.

WINDS, JUNE, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
BRITISH COLUMBIA.							
Victoria	7075	502	39	1	3	1	S.W.
Triangle Island	5742	651					
Kamloops	4721	283	21	0	1	2	
ALBERTA.							
Edmonton	4576	243	21	0	1	3	N. & W.
Calgary	5317	282	25	1	2	3	
SASKATCHEWAN.							
Prince Albert	3886	285	18	0	0	2	
Swift Current	7556	403	33	5	8	5	
Battleford	6603						S.E.
MANITOBA.							
Winnipeg	6130	157	27	1	2	5	26 days only.
ONTARIO.							
Port Arthur	6291	486	35	2	5	2	N. & E.
Parry Sound	4058	234					S.W.
Pelee Island	6667	404	35	3	3	3	
Toronto	7386	510	30	1	6	2	
Guelph	6358	377					N.W.
QUEBEC.							
Quebec	7694	589	33	2	4	3	N.E.
Father Point	8351	557	44	6	1	1	W.
Anticosti	8331	472	29	2	7	4	S.E.
MARITIME PROVINCES.							
Fredericton	4616	376	24	0	3	1	N.W.
St. John	6503	440	30	3	3	2	S.
Pt. Lepreaux	7562	471	38	5	5	4	E.
Halifax	6457	371	32	2	2	3	S.
Flat Point	8250	491	29	1	4	4	S.W.
Sable Island	10221	604					

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.	Per cent of observations.	Velocity: Mean miles per hour.	Velocity: Highest velocity.	Velocity: Date and direction.	Precipitation: Amount.	Precipitation: Difference from average.	Precipitation: Heaviest fall.	Precipitation: Date.	[illegible]	[illegible]	[illegible]
BRITISH COLUMBIA				ins.	ins.	ins.	ins.																																
Alberni (Beaver Creek)	49 14	124 49	[illegible]					56.1	3.0	16	84.0	[illegible]	31.0	[illegible]	[illegible]																								
Agassiz	49 14	121 31	[illegible]					56.1	5.1	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]																		1.56	[illegible]	[illegible]	24			
Atlin	59 35	133 38	2240	[illegible]	[illegible]	[illegible]	0.72	48.[illegible]		[illegible]	[illegible]	26	[illegible]		21.1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	[illegible]	0.74		0.28	[illegible]		2	0
Barkerville	53 2	121 35	4180	29.92	[illegible]	29.71	0.43	47.3	2.2	23	71.0	12	26.0	3	25.3		7	9	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	50	60	2.4	20	26 S.W.	1.12	[illegible]	[illegible]	[illegible]	0	1	0
Bella Coola	52 10	126 51	[illegible]					54.3	2.9	1	78.0	26	32.0	7	22.8																		1.18	0.14	[illegible]	[illegible]	0	1	3
Babine Lake	55 38	126 25																																					
Boswell	49 19	116 41						60.7		1	87.0	17	44.5	7	21.8																		1.60		0.62	19, 20	0		0
Chilcotin (Big Creek)	51 1[illegible]	123 0	3100					52.0		8	81.0	11	26.0	19	32.0																		1.80		1.27	9, 21	0	6	[illegible]
Cranbrook	49 30	115 50						59.8		7	92.0	12	34.0	6	32.1																		2.5[illegible]		1.1[illegible]	22	0	1	0
Clayoquot	49 11	125 47	10					52.8	1.2	12	71.0	25	36.0	3	17.0																		1.[illegible]	[illegible]	[illegible]	[illegible]			
Cowichan (Tzouhalem)	48 25	123 42	170					57.2		5	78.2	12	37.8	20	22.1																		0.86		[illegible]	[illegible]			0
Chilliwack	49 10	121 57	21					56.9	3.1	13	78.0	11, 25	31.0	19	20.7																		1.[illegible]2	2.07	0.6[illegible]	9, 2[illegible]	0	1	
Enderby	50 32	119 7	1180					65.7		9	90.0	12	[illegible]	[illegible]	32.2																		1.32		0.[illegible]	7, 2[illegible]			
Fort St. James (Stuart's Lake)	54 28	124 12	2280					49.9	1.3	5	71.0	12	26.5	19	21.9																		1.62	0.8[illegible]	0.[illegible]	1[illegible]			
Fairview	49 11	119 36																																					
Fruitvale	49 9	117 31						59.0		2	90.0	2	34.0	20	32.6																		2.03		[illegible]	[illegible]			
Glacier	51 14	117 29	4072					50.8	0.2	11	75.0	13, 17	31.0	6, 20	25.5																		2.91	[illegible]	0.21	1	0		0
Golden	51 16	116 55	2550					56.9	0.6	10	81.[illegible]	1	32.0	2	27.0																		1.75	0.19		24	0		[illegible]
Grand Forks	49 2	118 27						62.1		1	93.0	12	37.0	5, 20	30.9																		2.78		1.[illegible]	1[illegible]	[illegible]	7	0
Greenwood	49 5	118 41						58.9		1	91.0	12	29.0	20	31.1																		1.[illegible]1		[illegible]	8	[illegible]	[illegible]	0
Holberg	50 39	128 18						51.2		3	65.7	15	40.5	1	7.5																		6.1[illegible]		1.[illegible]	16, [illegible]	0		
Hedley	49 35	120 10						60.7		6	88.0	12	40.0	20	25.1																		1.38		0.[illegible]	8, [illegible]			
Hedley (Nickel Plate)								38.6		6	61.0	15	20.0	4	17.8																		3.2[illegible]		0.6[illegible]	1, [illegible]			0
Hope	49 23	121 25						59.1		2	81.0	12	41.0		19.1[illegible]																		[illegible]		0.10	8, 22	0	1	[illegible]
Ikeda Bay	52 17	131 7	5					52.7		3	61.0	27, 30	40.0	19, 20	11.3																		4.16		0.90	14, 16		0	0
Kamloops	50 41	120 29	1245	29.88	30.21	29.57	0.64	61.1	+0.3	19	89.0	12	41.0	4	26.3		56	5	3	3	2	1	1	1	1	28	2	11	60	6.6	16	4 S.	0.[illegible]3	1.07	0.07	6, 21		0	0
Ladner	49 5	123 4						56.9		8	76.0	25	30.0	18	22.[illegible]																		1.40	0.47	0.00	5, 27	0	0	0
Massett, Q.C.I.	53 58	132 9	30					52.7	−1.1	14	66.0	21, 26	41.0	5, 20	10.9																		3.42	0.4[illegible]	0.[illegible]	2[illegible]	0	0	0
a Nanaimo	49 10	123 37	125	29.95	30.15	29.57	0.45	56.4	1.0	11	77.9	12	35.2	19	19.1		77	4	1	0	7	0	11	6	0	1	23	29	60	6.[illegible]	25	23 N.W.	0.93	0.[illegible]2	[illegible]	4, 26	0	0	0
Nicola Lake	50 9	120 30	2120					57.1	+0.2	16	84.0	13	33.0	19	26.3																		0.46	0.8[illegible]	0.[illegible]2	[illegible]	0	1	0
North Nicomen	49 12	122 2	50					57.6	1.6	19	80.0	12	34.0	5	22.2																		1.[illegible]	[illegible]	[illegible]	8, 22	0	0	0
New Westminster	49 13	122 51	330					56.8	1.6	23	79.2	10	30.7	19	19.0																		2.18	0.12	1.[illegible]	7, 23	0	0	0
Nelson	49 29	117 21	1760					60.3		9	86.0	1	42.0	3, 7	21.5																		2.5[illegible]		[illegible]	[illegible]			
Needles	49 40	118 9						58.5		2	83.0	1	38.0	20	28.4																		[illegible]						
Okanagan Mission	49 52	119 29	1200					61.1	0.2	13	86.0	1	36.0	20	28.4																		[illegible]		[illegible]				
Princeton	49 29	120 20	1650					56.6	+0.2	15	84.0	12	30.0	3, 20	30.8																		0.86	0.14	[illegible]	[illegible]	0	2	0
Penticton	49 29	119 35						60.9		5	82.5	1, 15	37.0	5	23.9																		1.15		0.47	8, 22	0	0	0
Pemberton Hatchery	50 20	122 33						57.6		3	85.5	14	32.5	19, 20	28.0																		0.13		0.20	3, 27	0	0	0
Prince Rupert	54 18	130 18	170	30.03	30.29	29.75	0.54	49.8		2	67.0	25	30.0	6	12.8		80	8	15	3	1	6	1	8	15	2	1	23	60	2.9	12	10 N.E.	5.29		1.06	20, 10	0	0	1
Quesnelle	52 59	122 30	1700					57.0	2.7	16	81.0	13, 26	27.0	24	30.3																		0.86	0.14	0.15	5, 25	0	2	0
Revelstoke	51 0	118 6	1476					60.2	+2.2	12	93.0	1	32.0	20	29.3																		2.13	1.03	0.96	9, 21	0	1	0
Rossland	49 5	117 48	3400					58.3		7	80.0	15	41.0	1	18.8																		2.68		1.25	4, 19	0	5	0
Ruskin (Stave Falls)	49 16	122 23	125					60.0		2	90.0	1	38.0	18	21.1																		1.65		0.61	6, 24	0	0	0
Salmon Arm	50 42	119 35	1152					61.0		9	90.0	1	31.0	20	29.1																		0.96		0.51	7, 23	0	3	1
Steveston (Garry Point)	49 21	123 17						55.6	+0.9	16	72.0	27	35.0	23	17.9																		1.31	0.54	0.42	7, 25	0	0	0
Swanson Bay	50 37	126 51						49.9		3	65.0	11, 13	37.0	2, 19	15.1																		8.82		2.10	19, 11	0	0	0
Summerland	49 57	119 0	1100					62.0		4	86.0	1	40.0	5	22.8																		0.83		0.31	3, 27	0	2	0
Sooke	48 11	123 41	25					53.1		1	72.0	13	35.0	18, 19	19.2																		0.90		0.49	3, 27	0	0	1
Stewart	56 1	130 1	215					53.6		1	81.0	25	35.0	16	21.3																		2.21		0.46	10, 29	0	0	0
Tobacco Plains (Elko)	49 1	115 5	2681					61.5	+5.9	16	90.0	22	40.0	6	26.1																		2.97	0.38	0.95	13, 17	0	2	0
Triangle Island	50 52	129 5	680																																				
a Tranquille	50 41	120 29		28.71	28.96	28.42	0.54	63.5		3	90.0	12, 15	39.0	19	28.6		67	4	1	12	12	3	3	0	8	8	14	0	60				0.14		0.07	3, 2		0	0
Vernon (Coldstream Ranch)	50 14	119 15	1246					60.4	+0.4	18	87.0	1, 15	35.0	7	29.1																		1.75	+0.08	0.43	9, 21	0	0	0
Victoria	48 24	123 19	85	30.05	30.26	29.83	0.43	56.4	+0.3	19	73.2	10	40.2	19	17.5		68	6	3	0	1	2	3	2	31	8	2	8	60	11.0	32	2 S.W.	0.73	0.23	0.21	7, 25	0	0	0
Vancouver	49 17	123 5	130	30.05	30.26	29.79	0.47	57.2	−1.0	11	72.6	12	41.5	6	17.3		73	4	1	3	1	13	11	3	7	8	2	12	60	3.7	12	16 S.	2.09	0.61	0.78	6, 24	0	0	0
Winter Harbour	50 32	128 3						50.9		15	61.0	1, 26	39.0	3, 16	13.9																		4.79	+0.21	2.08	11, 19	0	0	0
Wilmer	50 30	116 4						—	—	2	—																						1.91		0.72	7, 23	0	3	0

YUKON :—																																					
Carcross	60	11	134	31	2171					49·0	—	5	75·0		22	29·0		11	22·0												0·72		0·26	10	20	0	0	0
Dawson	64	4	139	20	1200	29·98	30·10	29·11	0·99	56·7	1·2	10	83·0		22	31·0		2	3·0		13	0	3	1	1	1	0	0	38	60	0·87	0·99	0·41	9	21	0	0	0
White Horse	60	15	135	0	2075																																	
ALBERTA—																																						
Athabasca Landing	54	43	113	17	1650					56·5	—	8	78·0		13	29·0		7	21·0		1	0	1	5	1	3	11	5	0	30	5·18		0·91	13	17	0	5	0
Alix	52	24	113	10						57·1		7	78·0	1	18	37·0		6	20·3		7	1	2	5	1	3	0	12	2	30	5·16		1·51	12	18	0	5	3
Banff	51	10	115	31	4542	29·90	30·31	29·53	0·78	53·2	+2·1	16	76·6		12	29·3		4	26·1	6	2	6	1	0	2	23	5	0	21	60	2·81	−0·35	0·96	13	17	0	2	0
Blairmore	49	40	114	30	4225					55·6	—	1	81·2		12	30·3	5	6	28·2												1·95	—	0·98	8	22	0	2	0
Calgary	51	2	114	2	3389	29·84	30·18	29·18	0·70	57·6	+5·0	27	82·0	17	18	36·0		5	23·6	5	12	1	6	5	3	0	5	21	1	60	2·63	0·61	0·41	11	16	0	1	0
Cardston	49	12	113	18						58·5	—	7	85·0		19	38·0		5	30·9												6·32	—	1·80	5	25	0	0	0
Didsbury	51	10	114	8	3300					57·7	—	9	84·0		11	36·0		5	22·9		2	3	5	4	3	1	0	11	0	30	1·50	—	0·98	13	17	0	0	0
a Dunvegan	55	56	118	35	1305																																	
Delia										57·7		1	82·9		18	32·5		5	25·1		10	6	6	9	10	1	2	15	1	60	5·29		1·70	9	21	0	6	1
Edmonton	53	33	113	30	2158	29·86	30·24	29·46	0·78	59·1	+2·2	29	82·0		16	31·0		7	21·9	8	16	0	6	1	10	1	17	5	1	60	3·80	+0·39	0·96	17	13	0	5	0
Eckville	52	23	114	22						54·0		4	80·0		1	30·2	5	6	6·5												3·06		0·65	6	24	0	5	0
Endiang	52	0	112	0	2795					57·1		1	80·5		16	31·7		5	23·1												5·20		1·72	8	22	0	0	0
Fort Vermilion	58	27	116	3						55·0		7	81·3		11	32·0		26	25·9												2·81		1·30	9	21	0	0	0
Gleichen	50	59	112	54	2952					59·7		8	85·0		16	35·0		6	27·6												1·48		0·75	4	26	0	3	0
Gilt Edge	52	59	110	13						58·9		2	88·2		16	30·2		7	26·2												[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hillsdown	52	11	113	29	2806					57·9		7	80·0		17	37·6		6	22·0		0	1	0	11	2	8	0	31	7	60	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
High River	50	35	113	53	3391					57·6	—	8	83·0	12	17	36·0		6	26·2												4·63		1·13	12	18	0	0	0
Harmattan	51	45	114	23	3500					54·2		4	78·0	1	17	39·0		6	26·6												3·16		0·78	12	18	0	6	0
Halkirk, (Emsburg)	52	17	112	10						57·7		2	84·0		17	36·0	6	7	22·7		7	12	6	8	8	1	1	11	0	60	6·94		1·97	12	18	0	5	0
Lethbridge	49	42	112	40	2961					63·7	+3·9	10	89·1		12	39·6		6	25·8												4·62	+1·55	1·35	11	20	0	0	0
Lethbridge (Exp. Farm)	49	43	112	54						61·8		4	86·5	19	22	35·1		6	26·2												4·71		1·13	10	20	0	0	0
Lacombe	52	58	112	51	2783					57·5		1	80·0		16	31·7		6	24·9												5·63		1·15	16	14	0	1	0
Lawrence	50	46	113	26						58·8		4	90·0	13	24	32·0	1	7	[illegible]												3·57		0·78	10	20	0	0	0
Launford	54	33	111	49						55·7		2	78·2		11	28·5		7	25·5												5·60		1·30	19	11	0	1	0
Loveland	52	30	111	59						59·1		2	84·0		18	31·0		5	25·0		0	11	2	10	2	3	5	8	0	11	4·73		1·35	12	18	0	1	0
Medicine Hat	50	1	110	37	2161	29·78	30·24	29·41	0·80	67·2	5·8	27	93·0		18	43·0		9	27·0	3	2	1	6	7	8	3	11	11	8	60	3·60	0·98	1·22	12	18	0	7	1
Macleod	49	44	113	24	3128					64·9	+1·3	15	86·0		13	42·0		6	23·0												4·61	+3·61	0·87	11	16	0	7	0
Peace River Crossing	56	15	117	15						56·6		1	85·0		12	31·0	1	4	21·5												2·67		0·71	8	22	0	3	0
Pembina	54	12	114	0						56·2		1	79·0	3	12	21·0		7	26·8		2	8	2	2	3	1	18	5	15	50	6·98		1·12	14	16	0	0	0
Pakan (Victoria)	54	0	112	31						57·8		9	79·3		2	31·5		6	23·3		8	15	5	0	9	3	7	8	5	60	4·12		0·80	11	19	0	3	0
Pincher Creek	49	[illegible]	114	1	3750					58·1	0·2	13	82·0	12	13	35·0	1	4	25·3												4·05	0·76	2·11	10	20	0	0	0
Red Deer	52	16	113	49						60·2	3·0	12	79·0		1	30·0		11	21·9		1	3	0	0	5	1	3	8		27	5·07		1·18	10	[illegible]	0	0	1
Spirit River	55	40	118	47						55·3		2	85·0		12	27·0		4	[illegible]												4·40		0·75	13	17	0	3	0
Sundial	50	6	112	31						63·1		1	88·0	11	19	39·5		5	26·6												2·91		0·93	9	21	0	0	0
Threehills Creek	51	30	113	41						57·9		9	82·0		16	35·5		4	21·5												3·79		1·05	17	13	3	5	0
Wetaskiwin	52	58	113	23	2180					58·0		7	81·0		17	40·0		6	[illegible]												2·29		0·62	[illegible]	[illegible]	1	2	0
Waitefield	53	29	111	58	2300					58·2		6	82·0		16	31·5		7	22·0		6	7	11	16	0	3	6	18	24	90	4·41		1·91	22	8	0	[illegible]	1
SASKATCHEWAN—																																						
Battleford	52	41	108	20	1620	29·85	30·27	29·46	0·81	62·1	+3·4	21	85·0		17	38·0		7	22·6		2	11	3	31	0	3	6	6	24	90	7·36	3·89	3·42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Boutin										59·6	—	1	88·0		17	35·0		9	27·0												[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Broadview	50	23	102	33	1960					62·9		7	97·0		19	31·6		27	[illegible]												[illegible]		1·70	9	21	[illegible]	[illegible]	[illegible]
Brownlee	50	15	106	0						61·4		1	90·4		18	28·1		9	[illegible]		1	1	5	7	5	2	2	4	0	30	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Chaplin	50	26	106	39	2202					62·1	[illegible]	5	[illegible]		19	40·0		5	[illegible]		1	9	0	9	0	0	0	11	0	30	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cannington Manor	49	43	102	2	2051					61·6	3·9	17	91·0		20	35·0		27	23·0												[illegible]							
Crescent Lake	50	59	102	25	1658					60·8		7	88·0		19	32·8		27	22·1		1	6	1	0	9	1	1	5	2	30	[illegible]		[illegible]					
Cumberland House	53	56	102	16						64·0		1	81·0		26	40·0		2	[illegible]																			
Duck Lake	52	54	106	20																																		
Estevan	49	12	103	4	[illegible]					63·3		7	90·5		18	36·0		26	21·6		[illegible]	2	8	1	2	7	1	[illegible]	4	30	[illegible]							
East End	49	31	108	49																																		
File Hills	51	4	103	31																																		
Grenfell (Brownhill)	50	23	102	53	1957																																	
Glenbryan (Larchmount)	49	54	107	27						69·5		1	92·0		19	38·2		4	28·6		2	10	16	6	0	4	17	5	0	60	1·93		[illegible]	12	18	1	[illegible]	0
Humboldt	52	12	105	9						69·3		4	99·0		29	31·0		27	25·9												1·30		0·52	4	26	0	0	0
Hubbard (Drumague)	51	5	103	24																																		
Indian Head	50	28	103	40	1924					65·4	4·8	20	92·0		18	38·0		26	22·1		4	9	20	11	10	8	7	9	9	90	1·28	0·13	1·51	7	[illegible]	0	0	0
Kelvinhurst										61·4		1	93·0		22	35·0		29	30·3												1·33		0·27	16	[illegible]	0	0	0
Lloydminster	53	18	110	0						58·1		1	85·5		17	31·2		7	25·0												3·61		1·10	[illegible]	18	0	[illegible]	2
Lanigan	54	51	105	2																																		
Lasseland	52	5	109	24						58·2		1	95·2		18	35·0		9	29·6												[illegible]		2·96	11	19	0	0	0
Lost River										[illegible]		1	87·0		20	37·0		27	24·5												[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Moose Jaw	50	24	105	35	[illegible]					63·2	+1·9	5	92·0		18	39·0		27	25·0		11	23	12	6	0	8	5		15	90	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Moosomin	50	9	101	37	1884					61·8		10	93·0		19	34·0		27	21·3		1	0	20	0	5	1	3	0	0	30	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Muenster (St. Peter's Monastery)	52	0	105	0	1870					59·0		5	87·0		19	34·0		27	23·8		0	10	0	0	0	12	0	8	0	30	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Melfort	52	47	104	38						60·3		2	87·5		19	37·0		7	23·6												[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Maple Creek	49	55	109	28																																		
Onion Lake	53	52	[illegible]	[illegible]																																		
Oliver	51	16	108	10																																		
Pense (Gatesgarth)	50	20	104	0	[illegible]					60·8	2·6	15	90·0		18	35·0		27	[illegible]		0	3	5	1	7	1	3	[illegible]	2	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Prince Albert	53	10	106	0	1432	29·72	[illegible]	29·67	[illegible]	60·8	3·2	25	88·0		19	38·0		4	26·7		2	0	16	6	1	0	6	6	2	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Prince (Meota)	53	0	108	[illegible]	1700					59·6		1	83·0		16	31·0	5	6	24·3												[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Qu'Appelle	50	30	103	47	2115	29·86	30·20	29·59	0·61	63·9	2·2	27	88·5		15	35·0		27	21		3	6	10	12	6	9	1	[illegible]	0	[illegible]								

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'd.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.
SASKATCHEWAN—Con.																								
Quill Lake	52 [illegible]	104 14						58.5		1	72.0	21	29.5	27	14.3	6	7	9	11	6	2	16	[illegible]	[illegible]
Regina	[illegible]	104 37	188[illegible]					61.3	+ 1.6	26	90.[illegible]	18	36.0	27	25.3									
Rachmandbon	51	[illegible]						62.0		2	88.0	18	40.8	7	26.2									
Rosthern	52	[illegible] 106 20	1657					61.2		1	84.7	20	38.2	9	22.7									
Swift Current	50	20 107 [illegible]	2430																					
Saskatoon	52	[illegible] 106 30	1571					61.8		5.7	11 [illegible]	19	39.5	27	21.8									
Strassburg	51	[illegible] 104 56						62.6		2	91.0	18	35.0	5	23.6									
Scott (Ex. Farm)	52	7 108 30																						
The Pas	53	49 101 15	[illegible]																					
Wascana	[illegible]	[illegible] 108 2[illegible]																						
Yorkton	51	11 102 29																						
Yarbo (Fairfield)	50	30 102 1																						
MANITOBA—																								
Alexander	49	11 99 20						64.1		9	91.0	19 20	33.0	27	21.9									
a Awenie (Ft. A[illegible])	49	42 99 31	1[illegible]	28.70	2[illegible]	28.46	0.49	65.1		3.3	20 92.0	13	35.5	27	25.8									
Brandon	49	51 99 57	1176					64.2	+ 3.2	23	96.0	19	35.0	27	23.2	6	1	0	25	9	8	3	5	11
Berens River	52	18 97 23	710																					
Birtle	50	25 101 1	1703																					
Carberry	49	52 99 20	1258							6	96.0	18												
Carman	49	31 98 0	872							6	91.0	21	37.0	27										
Cypress River	49	33 99 3	1232					62.8		6	[illegible]	20	34.0	27	23.7									
Dauphin	51	8 100 2	9[illegible]7					61.8		5	92.0	19	42.0	27	22.1									
Hillview	49	55 100 33	1100					63.0		1.9	26 94.0	19	38.0	27	19.5	5	1	9	17	16	15	10	15	3
Minnedosa	50	15 99 50	1690	29.86	30.14	29.63	0.55	61.9		2.3	28 90.0	19	32.8	3	22.9	5	8	7	5	4	0	3	2	[illegible]
Morden	49	11 98 6	978					64.9		6	92.5	20	37.0	27	21.6									
Moose Horn Bay (Atikonsa)	51	15 98 33						61.2		2	85.2	[illegible]	30.2	27	20.6	8	6	1	9	6	1	1	2	17
Ninga	49	11 99 51	1640							1	93.5	19												
Oakbank	49	57 96 42	800					63.5		3.5	16 [illegible]	20	41.5	28	18.0	4	5	0	1	4	2	1	9	4
Pipestone	49	34 100 58	1400					63.5		3	99.0	20	36.0	[illegible]	25.5									
Portage la Prairie	49	57 98 17	83[illegible]					64.8	+ 3.2	21	88.0	20	38.0	26	19.0									
Portage la Prairie (2)	49	58 98 17						61.5		6	90.0	2[illegible]	40.0	27	19.0									
Pierson	49	11 101 5	1531					63.3	—	6	96.0	20	32.0	2	23.3									
Stony Mountain	50	10 97 11	803					61.8	+ 0	[illegible]	80.0	1	38.0	27	23.3	8	8	5	4	2	6	0	[illegible]	[illegible]
Swan River	52	6 101 1[illegible]	1112					62.3		1	86	18	41.0	1	25.5									
Treherne	49	29 98 40	1212					61.5		1.9	16 91.0	19	39.0	27	26.2									
Virden	49	51 100 55	1444					64.1		6	96.0	19	36.0	23	20.0									
Winnipeg	49	53 97 7	760	29.80	30.13	29.36	0.47	64.5		2.4	37 89.2	20	41.4	27	19.6	18	6	7	1	10	3	4	3	5
ONTARIO—																								
Alton	43	51 80 5	1250																					
Aurora	43	57 79 21	886					63.7		3	87.0	27	41.4	1	22.7									
Agincourt	43	47 79 16	580					64.2	+ 0.1	15	90.2	22	42.2	29	22.0	18	6	4	11	11	14	11	5	6
Barrie	44	23 79 41	739					63.0		3.3	31 83.0	27	41.3	29	19.1	9	9	11	4	6	3	5	27	13
Beatrice	45	8 79 20	[illegible]					62.1	+ 1.2	36 85.0	25	1[illegible].0	17	24	21.3	10	0	1	1[illegible]	7	2	2	13	1[illegible]
Bruce Mines	46	18 83 5[illegible]	[illegible]					61.3	+ 0.2	13	86.0	19	40.0	2	20.9									
Birnam	43	2 81 [illegible]	6[illegible]					65.0	+ 0.6	26	91.3	10	40.3	2	21.2	15	7	8	7	2	0	11	[illegible]	[illegible]
Brantford	43	10 80 21	[illegible]					67.4		2.1	20 92.0	22	41.0	1	22.0									
Bloomfield	43	59 77 2	2[illegible]					63.9		0.2	11 83.0	28	45.0	24	19.1									
Bancroft	45	1 77 50						61.7		0.8	20 84.0	10	36.0	23	23.1									
Copper Cliff	46	50 80 50						64.0		5	86.5	18	35.0	3	23.9									
Clinton	43	32 81 37						63.5		9	87.0	11	42.0	21	20.9	1	1	9	4	2	1	10	25	1
Coldwater	44	38 79 40	600																					
Cottam	42	7 82 45	606					66.7		0.7	29 96.0	10 22	44.0	1	25.7	19	0	6	2	11	3	15	1	0
Chatham	42	23 82 12	595					69.1	+ 2.9	20	97.0	10	47.0	1 18	26.4									
Collingwood	44	31 80 2								1.5	96.0	18	48.0	16										
East Toronto	43	35 79 18						63.3		5	91.0	22	44.0	29	21.9									
Elora	43	41 80 24	1274					64.2	− 0.1	11	89.0	10	40.0	29	26.2									
Gravenhurst	44	51 79 20						62.1	− 0.7	40 81.0	10 25	34.0	17	24	21.0	13	2	18	5	8	6	9	8	21

Station	Lat.	Long.	Height	Barometer	Mean temp.	Diff.	Highest	Lowest						Precipitation
ONTARIO—*Concluded.*														
Guelph	43 33	80 16	1070		64·8	+ 1·9	33 88·0	10 11	43·0 16	29 23·0				0·89 1·92 0·33 8 22 0 0 0
*a*Grimsby	43 13	79 36		29·55 29·86 29·14 0·72	65·5	—	2 95·0	23	45·0	6 21·5				2·67 0·72 12 18 0 0 0
Haileybury	47 29	79 39	657	29·94 30·32 29·48 0·84	62·1	+ 0·7	18 84·2	27	41·0	23 20·5		12 1 2 3 10 3 2 10 17 60	1 111	3·79 +0·40 2·26 9 21 2 0 0
Hamilton	43 16	79 54	303		67·2	+ 1·1	3 95·0	22	47·0	29 19·9				1·37 2·02 0·83 4 26 0 2 0
Haliburton	45 1	79 8	1050		62·9	+ 0·6	22 87·0	11 25	37·0	21 26·3				1·92 −1·27 1·00 10 20 0 8 0
Huntsville	45 19	79 8			62·3	—	1 83·0	11-25	39·0	21 23·9				0 0 0
Kenora	49 48	94 32	1102		62·8	+ 1·1	12 90·0	19	40·0	27 22·8				1·16 1·02 5 25 1 0 0
Kakabeka Falls	48 29	89 26	912		59·9	—	2 89·0	19	37·0	29 25·7				5·26 1·36 1 15 0 7 2
Kingston	44 13	76 29	285	29·94 30·25 29·59 0·66	62·3	− 0·5	37 75·2	26	46·6	4 13·9		1 12 1 7 3 21 1 9 2 60		3·53 −0·33 2·12 12 18 0 5 1
Kinmount	44 45	78 38	920		62·0	0·0	12 81·0	10	31·0	23 25·0				3·80 1·36 7 23 0 0 0
Lucknow	43 56	81 30	908		62·2	1·1	21 81·6	10	35·4	29 23·0				1·46 1·11 0·43 10 20 0 7 2
Lake Talon	46 15	78 48			63·3	+ 1·9	17 88·0	8	35·0	24 27·0				1·98 +0·42 0·65 8 22 2 2 3
London	42 59	81 15	808	29·94 30·26 29·57 0·69	67·7	+ 1·8	26 97·5	10	42·5	29 21·5	5 6	0 24 9 12 0 0 7 58 0 90		1·77 0·94 1·18 9 2 [illegible] 2 [illegible]
Lakeside Home	43 40	79 21			60·4		7 99·0	22	45·0	5 6 18·8				0 0 0
Lorne Park	43 32	79 37			65·8		3 92·0	22	45·0	29 25·4				1·55 1·13 9 21 0
Lindsay	44 [illegible]	78 45	872		64·3	+ 0·7	31 87·5	27	41·9	29 22·1	6 1	18 3 6 5 2 12 10 9 25 90	1 111 6 S E	1·65 1·65 0·47 9 1 0 1 1
Lakefield	44 25	78 15	871		64·3	0·2	28 80·0	11 12	49·0	6 17·4				1·97 0·65 0·62 9 21 0
*Midland	44 [illegible]	79 [illegible]	759		68·5		18 [illegible] 0	11 20	50·0	6				1·18 [illegible]
Madoc	44 [illegible]	77 [illegible]	575		62·1		7 [illegible] 0	9 27	42·0	21 2[illegible]				[illegible]
Montague	44 [illegible]	7[illegible] 57			63·9		2 [illegible]	30	45·0	24 21·1				[illegible]
Montreal River	47 8	79 29			61·0		1 89·0	26	36·0	3 24 27·0				3·18 [illegible]
Matheson	48 29	80 26			58·1	—	1 93·0	8	29·5	24 29·9		6 5 0 1 22 2 6 13 7 60		2·65 0·55 14 16 0 4 0
*North Bruce	44 [illegible]	81 25			57·7	− 3·9	21 8[illegible]·0	10	42·0	1-30 —		0 1 16 15 15 1 33 11 0 90		1·46 1·04 0·46 8 22 6 0 1
North Gower	45 8	75 43					9 90·0	28	45·0	3 26				2·11 0·83 3 27 0 1 0
Owen Sound	44 34	80 55	597		63·8	+ 2·2	32 94·0	22	40·0 2[illegible]	30 21·6		21 0 1 0 36 0 1 1 0 60		— 0 3 2
Orillia	44 37	79 24	775		65·1	− 1·1	17 88·0	19	45·0	29 22·6		8 3 1 2 5 1 7 0 30		1·47 1·82 0·57 7 23 0 1 0
Ottawa	45 26	75 42	294	29·91 30·21 29·51 0·70	6[illegible]·9	− 1·[illegible]	28 85·0	27	41·0	21 17·4		0 2 11 5 8 5 25 2 2 60		3·78 0·37 1·30 13 17 0 [illegible] 0
*Ottonabee	44 2	78 18	671											
Port Arthur	48 27	89 12	644	29·94 30·23 29·53 0·70	58·0	+ 1·6	31 80·0	14	40·0	28 18·0		8 10 25 1 2 0 4 3 7 60		6·23 3·24 1·55 16 14 0 5 4
Port Stanley	42 40	81 13	592	29·95 30·23 29·60 0·63	64·8	+ 1·2	36 83·4	27	44·0	29 19·5		1 2 8 8 0 5 13 8 11 60		1·79 0·92 0·96 9 21 0 4 3
Port Dover	42 47	80 13	635		64·4	+ 0·1	35 85·5	10	45·0	29 17·0				2·39 0·17 1·31 16 20 1 [illegible] 0
Port Burwell	42 [illegible]	80 5[illegible]	592		64·8		8 82·0	29	42·0	14 17·8				3·61 1·15 6 24 0 1 0
Parry Sound	45 19	80 [illegible]	635	29·95 30·24 29·52 0·72	64·0	+ 1·8	35 90·0	25	44·0	2 22·3		1 [illegible] 3 10 3 10 9 10 1 60		0·70 2·26 0·43 10 20 0 3 0
Point Clark	44 5	81 44	595		—		37	—		—				0·60 0·30 2 28 0 1 1
Pelee Island	41 50	82 35	585		76·3	+ 8·2	34 94·0	21	50·6	2 13·1				1·10 0·57 0·45 3 27 0 0 0
Paris	43 12	80 2[illegible]	840		67·4	+ 2·0	22 94·0	10	39·0	13 23·3				1·90 0·23 0·8 6 1 0 4 0
Peterboro	44 17	78 19	722		65·0	− 0·1	35 86·0	27	45·0	2-29 20·9				3·41 −0·[illegible]6 2·25 7 3 0 5 0
Porcupine	48 29	81 18			60·8	—	1 87·5	25	31·2	2 27·2				0 0 0
Providence Bay	45 40	82 14												
Ronville	45 15	78 5[illegible]	1038		60·8		4 83·0	19	40·0 20	29 20·9				3·05 0·96 9 21 0 0 0
Renfrew	45 26	76 3[illegible]	416		63·6	− 1·0	23 87·2	19	41·0	21 22·6				3·45 −0·61 1·25 11 19 0 [illegible] [illegible]
St. Catharines	43 9	79 17	317				1 90·5	22	45·0	6 —				2·22 1·47 1 26 0 0 0
Stonecliffe (Rockliffe)	46 [illegible]	78 6	5[illegible]7	29·94 30·32 29·50 0·82	60·5	− 0·2	34 80·0	30	37·0	3 20·7		1 0 11 0 0 0 9 0 39 60		4·20 −0·83 1·18 10 [illegible] 0 0 2
Southampton	44 30	81 2[illegible]	656	29·97 30·37 29·53 0·84	61·1	− 0·1	35 84·0	16	44·0	15 18·2		10 1 13 5 11 6 6 3 2 60		0·82 1·47 0·17 8 22 0 3 1
*Sarnia	42 58	82 21	586											
Stratford	43 25	81 0	1191											
Stony Creek	43 13	79 45	292		65·4	0·9	25 93·0	22	44·0	17 20·5	5 6	1 23 22 0 1 11 30 2 0 90	11 1N 27 S W	2·49 0·31 0·71 6 21 0 1 0
Schreiber	48 5	87 15			57·1	− 0·1	12 86·0	19	35·0	29 20·7				5·05 0·98 10 20 1 4 6
Shelburne	44 5	80 17			62·1		3 85·0	11 2	4[illegible]·2	29 20·9				2·[illegible]3 0·74 9 21 0 1
Toronto	43 40	79 24	350	29·94 30·23 29·56 0·67	65·6	+ 1·0	70 91·6	22	47·2	6 29·8		3 1 22 0 5 9 11 3 5 60		1·53 1·26 0·75 13 17 [illegible] 1 [illegible]
Uxbridge	44 [illegible]	79 8	886		63·7		6 87·0	27	42	29 22·5				1·57 0·40
Upland	4[illegible] 18	79 2[illegible]			60·4	+ 3·0	25 85·0	11	31·7	24 28·0		10 0 5 0 11 0 25 0 9 60		1·29 2·19 0·34
Ury	43 54	78 1												
White River	48 3[illegible]	85 16	1252	29·[illegible] 30·24 29·42 0·82	59·2	+ 1·9	20 82·0 10	26	34·0 15	29 27·5		9 1 6 3 6 2 8 3 19 60		[illegible]
Woodstock	43 8	80 45	980	29·93 30·24 29·56 0·68	65·3	+ 1·2	38 88·0 10	22	42·0	29 21·2	72 6 10	7 12 6 17 1 12 7 28 0 90	8 0 17 7 20 S W	[illegible]
Welland	42 59	79 17	577		65·9	+ 0·7	25 86·0	11	48·0 16	25 26·2				1·65 1·2[illegible] [illegible]
Windsor	42 20	83 4	625		69·6	+ 2·7	27 92·0	11	54·0	1 17·6				1·39 3·18 0·42 9 21 0 0 0
Wallaceburg	42 35	82 24			68·0		6 93·0 10	22	44·0	28 23·8				2·19 1·35 9 21 0 1 0
QUEBEC														
Abitibi	48 13	79 [illegible]2			59·1	+ 0·5	15 84·0	26	25·0	4 22·[illegible]	6 5	23 1 9 1 23 1 18 11 0 90	111 N —	1·57 1·65 0·65 6 21 0 0 0
*Anticosti, E. Point	49 6	61 42	50		48·3	0·1	27 62·0	7	37·0	3		4 14 9 5 9 16 17 13 3 90		[illegible] 2·61 4 26 0 14
*Anticosti, W. Point	49 [illegible]2	64 32	29		51·8	+ 0·2	29 72·0	27	30·0	2		11 10 11 5 [illegible] 7 5 13 0 90		6·2[illegible] −3·61 2·03 10 20 0 0 7
Brome	45 10	72 35	678		62·0	0·3	32 81·0	27	38·0	3 18·8		18 1 11 1 22 10 23 4 0 90		[illegible] 0·41 1·40 1[illegible] 0 1 0
*Bicquet	48 25	68 53			51·2	+ 0·9	29 70·0	9	34·0	24		1 [illegible]0 3 0 0 0 35 3 15 90		1·15 0·86 1·40 7 23 0 0 11
Clarke City	50 0	66 25										1 90		
*Cape Chatte	49 6	66 45			55·7	+ 1	27 73·0	28	39·0	2		0 0 16 0 1 6 21 3 30 90		[illegible] 1·06 1·80 [illegible]26 0 0 7
*Cape Magdalen	49 16	65 20	93		55·2	+ 1·0	29 86·0	27	39·0	1 2		1 2 6 7 9 [illegible] 7 26 24 90		[illegible] 1·43 1·30 10 20 1 0 7
Chicoutimi	48 25	71 5	150		61·0	+ 1·5	34 86·6	10	37·8	25 23·4	6 3	0 2 0 35 0 17 0 5 1 90	111 1N 11 [illegible]	2·25 1·16 0·58 10 20 1 1 [illegible]
Chicoutimi (2)					61·8		1 94·0	7	35·0	25 21·6				0 1
Cap Rouge	46 46	71 18			61·1		1 83·0	29	39·2	3 20·0				1·12 0·97 13 17 0 [illegible] [illegible]
Disraeli	45 55	71 21			60·6		1 83·0	27	35·5	26 26·5				3·80 0·87 8 22 0 2 1
Father Point	48 31	68 19	20	29·88 30·43 29·36 1·07	55·7	− 3·1	33 78·[illegible]	27	37·3	2 16·8		3 11 5 2 6 22 2 1 60		1·31 −1·27 1·21 10 2[illegible] [illegible] 0 1
Lake Edward	47 39	72 15	1333		57·4		2 82·2	29	34·[illegible]	25 22·1				[illegible] 0·81 9 21 [illegible] [illegible] 1
Montreal	45 30	73 35	187	29·91 30·25 29·48 0·77	65·5	0·1	36 83·3	28	50·4	2 15·6		1 3 6 5 0 7 25 4 0 60		1·62 0·60 1·31 13 17 [illegible] [illegible] 0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Barometers.

Station.	Latitude N.		Longitude W.		Elevation above Sea Level, in feet	Pressure: Sea-level reduced	Highest	Lowest	Range	Temperature: Mean	Difference from average	[illegible]	Highest	Date	Lowest	Date	Mean daily range
Quebec (Con'td.)																	
[illegible] M.B.	45	38	7[illegible]	58													
Quebec	46	48	71	13	296	29.81	30.32	29.40	0.92	62.7	+1.5	36	85.2	28	40.8	3	20.3
*Roberval	48	31	72	13	352												
St. Anne de Bellevue	45	27	73	59						64.6		5	86.8	28	43.0	3	19.5
Shawinigan Falls	46	31	72	43						60.0		5	85.0	25	39.0	1	21.8
Sherbrooke	45	32	72	5	620					61.8	−	9	82.5	29	39.9	3	20.7
Shawbridge	45	53	74	3													
New Brunswick																	
Chatham	47	3	65	29	21	29.92	30.39	29.44	0.96	61.8	+2.0	36	83.0	9	37.5	4	20.5
Dalhousie	48	4	66	22	29					58.9	+2.1	37	82.0	27	35.0	23	18.5
Fredericton	45	57	66	36	164	29.92	30.39	29.47	0.92	60.7	+0.3	38	85.0	9	37.8	25	22.6
Grand Manan	44	47	66	46	49	29.92	30.35	29.47	0.88	57.6	+1.6	26	82.6	19	37.0	23	16.4
Moncton	46	9	64	45	50					59.4	+3.5	14	82.0	19	35.0	3, 11	22.0
*Point Lepreaux	45	4	66	28	30					52.4	+0.4	29	64.0	8, 10	42.0	3	
St. John	45	17	66	4	70	29.92	30.36	29.52	0.84	59.1	+3.2	37	81.3	29	41.3	3	16.0
St. Stephen	45	11	67	16	35					59.9	+1.3	14	86.0	9	35.0	6, 25	25.0
Sussex	45	38	65	58	69					64.9	+2.8	14	82.0	9, 19	36.0	6	23.0
Nova Scotia																	
Antigonish	45	38	61	59	50					58.5		1	80.0	20, 27	32.0	1	22.1
Halifax	44	39	63	36	88	29.93	30.39	29.51	0.88	58.7	+1.1	36	81.4	19	37.1	5	18.7
Port Hastings	45	39	61	22	15					61.6		2	85.0	5, 12	28.0	3	19.3
Parrsboro'	45	23	64	19	40					57.7	+2.4	15	79.0	18	35.0	4, 11	21.9
Sydney	46	10	60	10	35	29.95	30.39	29.50	0.89	57.6	+2.9	37	80.0	26	28.0	6	19.2
*Sable Island, E. Point	43	58	59	46	25					51.0	+3.6	27	67.0	7, 15	42.0	11	
Truro	45	22	63	18	77					59.0	+1.3	38	82.4	9	30.6	1	23.0
Windsor	44	59	64	6	90					59.0		8	82.0	20	34.5	12	24.1
*Whitehead	45	15	61	8	20					52.4	+3.0	27	68.0	29	40.0	3	
*a*Wolfville	45	7	64	24		29.85	30.27	29.45	0.82	60.1	+1.8	12	81.0	19	37.0	4	20.3
Yarmouth	43	50	66	2	65	29.94	30.33	29.58	0.75	58.4	+3.1	30	79.3	30	39.5	5	16.4
P. E. Island																	
Charlottetown	46	14	63	10	38	29.93	30.39	29.48	0.91	58.4	+0.4	35	80.0	19, 26	36.0	1	15.6
Charlottetown (2)	46	14	63	7	75					58.6	—	1	79.0	19	34.5	1	16.8
Hamilton	46	25	63	48						59.5	+2.0	14	79.0	30	36.0	4	13.4
Newfoundland—																	
*Amour Point	51	28	56	51						40.5	—	19	58.0	30	31.0	9	
Burin	47	0	55	10	27												
*Cape Norman	51	38	55	52						37.4	+3.7	27	48.0	22	32.0	3	
Fogo	49	43	54	17	30	29.95	30.31	29.42	0.92	48.0		1	78.0	30	35	1	12.6
*Point Rich	50	42	57	25	35					49.2	+2.4	27	70.0	15	37.0	2, 3	
Port aux Basque	47	35	59	10	27	29.93	30.37	29.41	0.96	48.9		3	63.5	9	32.5	1	11.3
St. John's	47	34	52	42	125	29.92	30.33	29.38	0.95	52.6	+2.9	38	78.0	9, 29	32.0	5	17.7
Bermuda—																	
Prospect	32	17	64	16	151	30.11	30.35	29.89	0.46	73.9	−0.9	19	82.0	25	65.6	3, 21	9.3

Station.	Direction of wind:									
Quebec	0	21	0	8	2	11	5	9	4	6[illegible]
Chatham	5	3	16	5	0	12	9	9	1	60
Fredericton	5	2	12	8	15	12	15	26	1	90
Halifax	3	7	7	6	13	16	5	7	2	60
Truro	6	[illegible]	3	11	21	7	14	16	4	90
*Whitehead	5	3	7	14	20	21	9	11	0	90
Yarmouth	3	[illegible]	12	4	12	7	[illegible]	[illegible]	[illegible]	[illegible]
Charlottetown	3	7	4	5	19	4	10	1	4	60
Hamilton	4	2	0	2	5	13	3	1	0	30
*Amour Point	3	3	19	0	0	1	22	11	0	90
*Cape Norman	0	13	34	9	2	0	29	3	0	90
Fogo	8	5	1	7	13	8	14	1	2	60
*Point Rich	1	32	2	11	4	15	22	3	0	90
Port aux Basque	2	1	24	3	0	4	11	11	1	60
St. John's	6	5	9	7	8	20	2	3	0	60
Prospect	0	2	0	1	13	34	5	3	2	60

Station.	Precipitation:							
Charlottetown	2.91	−0.27	0.82	12	18	0	1	0
Charlottetown (2)	2.91		0.75	12	18	0	0	0
Hamilton	2.00	−0.62	0.62	8	22	0	0	0
*Amour Point	2.50		0.80	4	26	0		16
*Cape Norman	1.02	1.20	0.40	6	24	0	0	14
Fogo	1.23		0.82	19	11	0	1	6
*Point Rich	[illegible]	−0.96	1.12	9	21	0	0	3
St. John's	[illegible]	0	2.14	18	13	17	1	[illegible]
Prospect	6.11	0.96	1.76	13	17	0	8	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, etc., DURING JUNE, 1911.

STATIONS.	TEMPERATURE					PRECIPITATION			REMARKS.
	Mean	No. of Days '90 or over	No. of Frost Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days	Date.	
BRITISH COLUMBIA									
Alkali Lake		3							Thunder on 29.
Annis		10							
Beaver Lake									
Coquitlam									
Denman's Island									Thunder on 21.
Ferguson									
Goldstream Lake									
Hornby Island									
Hydraulic		11							
Jordan River		6							
Jordan River (Bear Creek)		4							
LittleQualicum(French Creek, V.I.)		2							
Monte Creek		1							
Naas Harbour		11							
Skidegate		12							
Shawnigan Lake		8							
ALBERTA—									
Bardo		11							Thunder on 2.
Bismark		13							Thunder on 2, 3, 17, 18.
Bruederheim		16							
Bittern Lake		11							
Brooks		11							Thunder on 1, 2.
Campsie		18							Thunder on 1, 2, 3, 27.
Caldwell		8							
Dorenlee		11							Thunder on 1, 2 6, 13, 14, 16 17, 18, 20, 27.
Dunstable		19							
Grassy Lake		5							
Jumping Pound		9							Thunder on 17.
Lacombe		4							Thunder on 3, 5, 12, 13, 14, 22, 25, 29, 30.
Loch Sloy		11							
Lyndon		9							
Lineham									Thunder on 21, 29.
Macleod									
Mayerofft		15							
Mayton									Thunder on 12, 13, 14, 21, 27
Okotoks		10							Thunder on 13.
Pekisko		9							
Ponoka									Thunder on 2 12,13,14 21 28,29
Priddis		11							Thunder on 12.
Playle Creek		8							Aurora on 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 17, 19 20, 23, 24. Thunder on 2, 3, 6, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 28, 29, 30.
Sion									
Seven Persons									
SASKATCHEWAN—									
Carmichael		7							
Coulee									
Elm How									Thunder on 4, 19, 20, 21.
Forks Swift Current (Gull Lake)		11							
Gull Lake		12							
Hanley									
Kindersley									
Kelvinhurst									
Last Mountain									Thunder on 19.
Maple Creek		11							
Meadow River									
Willow Creek									
MANITOBA—									
Cartwright		10							Thunder on 2, 3, 4, 7, 8, 10.
Deloraine		9							Thunder on 9, 20, 21, 24, 29.
Gretna									Thunder on 3, 10.
Norquay									
Rapid City		12							Thunder on 2, 3, 4, 7, 24, 25, 28.
Rosebank		9							
ONTARIO—									
Arden									Thunder on 6, 10, 27.
Deer Park		11							
Dutton		3							Thunder on 10, 11, 12, 19, 22.
Emsdale		12							
Goderich									Aurora on 20. Thunder on 1, 5, 9, 10, 11, 26, 27.
Georgetown									
Grantham									
Grand Valley									
MacCue									
Orangeville									
Princeton									
Sydenham									
Strathroy									
Watford		6							Thunder on 7, 20, 27.
Westport		5							Thunder on 10, 12.
Wooler									Thunder on 4, 11.
Westminster		3							
Wiarton									Thunder on 9, 10.
Wesley		9							
QUEBEC—									
Timiskaming		5							
Kepawa									Thunder on 11, 19
Quinze Dam		6							
Lucerne									Thunder on 11.
Perkins Mills		10							
NEW BRUNSWICK—									
Point Escuminac		8							Fog on 29.
NOVA SCOTIA—									
Kentville		8							
Milton									
South Alton									
White Rock		8							
Liverpool (Indian Gardens)		8							

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF JUNE, 1911

STATIONS	Hours Ending																							
	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.									
Salmon Arm	18	62	67	70	72	74	73	70	61	69	70	76	71	61	52	19								
Victoria		02	20	52	49	61	61	63	63	73	74	73	7	7	32									
Nanaimo		01	11	52	53	58	62	66	73	72	68	61	63	67	50	01								
Vancouver		33	39	39	39	39	52	59	61	65	65	68	70	63	25									
Agassiz			18	39	41	41	47	47	52	56	51	52	55	53	24									
Tranquille	14	67	69	70	77	81	84	81	81	76	72	72	68	63	53	16								
Summerland	20	51	65	68	78	74	70	68	65	68	68	67	64	61	38									
Kamloops	09	57	62	68	77	8	77	81	79	73	75	78	68	62	53	10								
Edmonton	15	28	51	48	54	58	61	68	47	52	51	48	46	40	34	13								
Dunvegan	08	44	55	59	64	59	62	69	58	47	58	52	52	41	38	16								
Lethbridge	36	55	65	63	68	73	75	81	81	78	67	70	47	40	25									
Lacombe	11	47	55	60	6	65	72	80	71	51	54	53	51	43	32	17	02							
Medicine Hat	20	61	73	76	70	71	75	76	70	74	76	69	63	49	35	06								
Fort Vermilion		22	36	44	62	59	65	66	67	57	56	44	31	16	01									
Battleford		11	21	37	37	59	52	52	53	46	50	53	48	48	37	11								
Indian Head	09	46	49	50	56	51	56	49	57	50	55	51	51	56	49	11								
Moosejaw	05	45	50	47	44	52	57	57	63	61	62	58	52	61	58	23								
Scott	21	44	53	56	62	61	68	66	68	72	67	68	60	57	61	24								
Rosthern	11	27	39	45	48	53	61	59	73	68	60	70	67	63	56	12	01							
Brandon		13	38	48	51	58	58	57	61	61	58	53	45	38	14									
Winnipeg	07	14	51	56	61	61	61	54	52	57	51	52	49	51	40	12								
Haileybury	21	18	51	52	48	48	56	53	60	70	54	51	53	57	53	05								
Woodstock		22	4	52	56	61	56	60	63	63	64	65	67	45	51	10								
Lindsay		02	08	21	5	51	5	57	62	62	67	58	46	38	34									
Barrie		33	11	16	43	49	5	57	58	52	53	58	47	51	28	08								
Toronto		21	21	52	51	62	68	65	60	67	72	68	60	58	31	01								
Kingston	08	22	31	43	40	47	48	50	52	50	53	55	54	45	38	06								
Ottawa	08	30	47	50	58	59	57	54	62	63	67	59	58	51	42									
Montreal	04	32	47	61	65	62	63	60	75	68	66	58	32	33	T									
Quebec	01	21	42	46	52	51	61	58	61	67	61	63	56	58	54	03								
Sherbrooke	14	45	52	48	54	56	58	56	54	66	73	67	61	58	44	13								
Fredericton	04	24	41	42	49	51	50	55	50	46	54	47	40	38	34	12								
Charlottetown	04	32	47	51	54	5	48	51	56	52	54	58	52	50	3	01								

	Salmon Arm.	Victoria.	Nanaimo.	Vancouver.	Agassiz	Tranquille.	Summerland	Kamloops.	Edmonton.	Dunvegan.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Scott.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.
Registered duration in hours	246	254	238	218	175	310	270	303	212	232	257	217	289	217	187	226	217	273	262	196	227	237	211	192	202	230	190	233	219	228	218	193	212
Percentage of possible duration	60	53	49	45	36	67	60	65	42	41	61	49	59	49	36	46	50	55	52	40	46	50	53	39	44	50	41	5	51	48	53	41	45
Difference from average		-11	+ 4		- 6										9	- 4					5	7		0	-15	- 5	6	13	-11	- 4	+ 2	..	+ 0	
Maximum percentage in one day	96	86	80	86	77	90	87	90	88	81	95	83	91	74	85	96	94	93	95	80	80	92	93	84	87	86	91	92	91	91	95	90	83
Date of maximum	20	19	7	18	12	18	18	16	15	3	10	15	18	26	20	11	11	11	11	12	7	2	16	20	17	19	24	17	21	21	23	7	7
No. of days completely clouded	2	2	1	1	6	1	2	2	1	1	0	3	0	2	2	1	1	0	2	2	1	1	2	3	3	1	8	3	1	2	3	6	4

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given. I., brightest, IV., the feblest in brilliancy.

1. Minnedosa I.
3. Sion.
4. Sion, Cape Magdalene, Quebec III, Lake Talon IV.
5. Sion.
6. Sion.
7. Sion.
8. Sion, Gravenhurst IV.
9. Sion, Oliver.
10. Sion, Hillsdown IV, Threehills Creek III, Wetaskiwin, Oliver, Glenbryan.
12. Sion, Threehills Creek III, Gravenhurst IV.
13. Threhills Creek IV, Aitkensville IV.
14. Lake Talon.
15. Sion.
16. Sion.
17. Sion.
19. Sion.
20. Sion, Schreiber, Kenora III, Lake Edward, Quebec IV, Haileybury IV.
23. Sion, Haileybury IV.
24. Sion.
27. Aweme IV.
28. Lake Edward, Quebec IV.
30. Georgetown III, Aweme III, Agincourt IV, Port Dover, Chicoutimi, Quebec IV, Father Point III, Barrie IV.

Thunder recorded :

1. Dunstable, Caldwell, Campsie, Athabasca Landing, Macleod, Threehills Creek, Waitefield, Quebec.

2. Sion, Dunstable, Caldwell, Bruederheim, Campsie, Bismark, Priddis, Cartwright, Rapid City, Eckville, Macleod, Athabasca Landing, Pakan, Threehills Creek, Waitefield, Hillview, Treherne, Port Dover, Spirit River.

3. Sion, Loch Sloy, Bruederheim, Gretna, Cartwright, Rapid City, Harmattan, Threehills Creek, Waitefield, Hillview, Aweme, Almasippi, Treherne, Quebec, Fort Vermilion.

4 Cartwright, Rapid City, Georgetown, Westminster, Ninga, Oakbank, Stony Creek, Wallaceburg, Port Dover, Point Clark, Lucknow, Hamilton, Brantford, Birnam, Gull Lake, Yarbo, Muenster, Cannington Manor, Glenbryan, Pense, Chaplin, Quill Lake, London, Fredericton, Princeton, Ont., Crescent Lake, Rossland, Clinton.

5. Loch Sloy, Georgetown, Eckville, Harmattan Carbery, Morden, Almasippi, Treherne, Agincourt, Paris, Port Burwell, Birnam, Aurora, East Toronto, Sussex, Yarbo, Minnedosa, Port Stanley, Toronto, Wolfville.

6. Sion, Dunstable, Deer Park, Crescent Lake.

7. Cartwright, Rapid City, Westport, Hillview, Aweme, Almasippi, Treherne, Regina, Pense, Grand Forks, Hope, Wilmer.

8. Cartwright, Brandon, Hillview, Morden, Aweme, Almasippi, Treherne, Agincourt, Kakabeka Falls, Haliburton, Yarbo, Cannington Manor, Minnedosa, Crescent Lake.

9. Wesley, Georgetown, Paris, Port Dover, Owen Sound, Midland Lucknow, Kakabeka Falls, Brantford, Bruce Mines, East Toronto, Muenster, Bella Coola, Minnedosa, Southampton, Parry Sound, Port Arthur, Gravenhurst, Deloraine, Barrie.

10. Cartwright, Wesley, Wooler, Georgetown, Emsdale, Deer Park, Aitkensville, Carberry, Almasippi, Agincourt, Renfrew, Madoc, Midland, Lakefield, Lucknow, Kakabeka Falls, Haliburton, Brantford, Aurora, Bruce Mines, Bloomfield, Collingwood, Winnipeg, Minnedosa, Southampton, Parry Sound, Ottawa, Kingston, Toronto, Lindsay, Gravenhurst, Barrie, Crescent Lake, Peterboro' Lake Talon, Clinton.

11. Georgetown, Emsdale, Westminster, Deer Park, Perkins Mills, Quinze Dam, Hillsdown, Threehills Creek, Agincourt, Beatrice, Stony Creek, Port Dover, Montreal River, Madoc, Midland, Lakefield, Lucknow, Haliburton, Brantford, Birnam, Aurora, Bruce Mines, Bancroft, Collingwood, Brome, Shawinigan Falls, Alix, Princeton, Okanagan Mission, Chilcotin, Boswell Southampton, Parry Sound, Ottawa, Port Stanley, Kingston, Toronto, Montreal, Haileybury, Lindsay, London, Gravenhurst, Delia, Cranbrook, Wilmer, Fort St. James, Shelburne, Peterboro', Lake Talon, Clinton.

12. Loch Sloy, Okotoks, Playle Creek, Priddis, Wooler, Emsdale, Harmattan, Lacombe, Halkirk, Macleod, Threehills Creek, Beatrice, Renfrew, Paris, Port Dover, Orillia Matheson, Montague, Lund, Lucknow, Hamilton, Brantford, Birnam, Aurora, East Toronto, Bloomfield, Collingwood, Muenster, Nelson, Grand Forks, Tobacco Plains, Enderby, Salmon Arm, Okanagan Mission, Ottawa, Port Stanley, Kingston, Toronto, Montreal, Lindsay, Gravenhurst, Barrie, Peterboro, Lake Talon

13. Sion, Dunstable, Pekisko, Okotoks, Priddis, Bairmore, Harmattan, Macleod, Renfrew, Midland, Haliburton, Nelson, Shawinigan Falls, Lake Edward, Point Lepreaux, Annis, Rathmullen, Lloydminster, Lost River, Grand Forks, Summerland, Tobacco Plains, Hadley, Revelstoke, Salmon Arm, Okanagan Mission, Chilcotin, St. John, N.B., Yarmouth, Haileybury, Crescent Lake, Gleichen, Peterboro.

14. Sion, Dunstable, Loch Sloy, Okotoks, Priddis, Hillsdown, Athabasca Landing, Halkirk, Pakan, Threehills Creek, Waitefield, Prince, Matheson, Shawinigan Falls, Antigonish, Alix, Rathmullen, Boutin, Glenbryan, Chaplin, Chilcotin, Yarmouth, Grand Manan, Crescent Lake, Delia.

15. Sion, Harmattan, Waitefield, St. Stephen, Lost River, Grand Forks, Sydney, St. John, N.B., Ottawa, Spirit River.

16. Sion, Dunstable, Bruederheim, Eckville, Halkirk, Pakan, Threehills Creek, Wetaskiwin, Waitefield, Peace River Crossing, Boutin, Lloydminster, Sydney, Delia, Spirit River.

17. Sion, Dunstable, Lacombe, Pakan, Waitefield, Shawinigan Falls, Peace River Crossing, Boutin, Lloydminster, Chaplin, Quebec, St. John's, Nfld., Truro, Spirit River, Fort St. James.

18. Sion, Dunstable, Bruederheim, Athabasca Landing, Pakan, Waitefield North Gower, Copper Cliff, Sherbrooke, St. Stephen, Chaplin, Yarbo, Lloydminster St. John, N.B., Chatham, N.B., Haileybury, Fredericton, Crescent Lake.

19. Sion, Emsdale, Quinze Dam, Hillsdown, Athabasca Landing, Waitefield, Prince, Hillview, Oakbank, Schreiber, Renfrew, Chaplin, Matheson, Montague, Lucknow, Kakabeka Falls, Brome, D'Israeli, Point Lepreaux, Antigonish, St. Stephen, Gull Lake, Maple Creek, Alix, Rathmullen, Cannington Manor, Glenbryan, Pense, Maple Creek, Minnedosa, St. John, N.B., Ottawa, Port Arthur, Montreal, Grand Manan, Haileybury, Lake Talon.

20. Sion, Dunstable, Cartwright, Westport, Blairmore, Aitkensville, Almasippi, Oakbank, Matheson, Point Lepreaux, Windsor, N.S., Antigonish, Sussex, St. Stephen, Gull Lake, Rathmullen, Glenbryan, Maple Creek, Chaplin, Lost River, Chilcotin, Winnipeg, Halifax, St. John, N.B., Grand Manan, Chatham, N.B., Fredericton, Crescent Lake.

21. Sion, Mayerott, Okotoks, Caldwell, Priddis, Cartwright, Eckville, Macleod, Threehills Creek, Waitefield, Prince, Bruce Mines, Annis, Ferguson, Alix, Glenbryan, Nelson, Grand Forks, Golden, Tobacco Plains, Nicola Lake, Chilliwack, Hadley, Princeton, Okanagan Mission, Sydney, Charlottetown, Halifax, Delia, Gleichen, Wilmer, Rossland

22. Sion, Loch Sloy, Emsdale, Eckville, Hill-down, Harmattan, Halkirk, Loveland, Wetaskiwin, Waitefield, Prince, Beatrice, Schreiber, Port Dover, Madoc, Kakabeka Falls, Haliburton, Brantford, Birnam, Bloomfield, St. Stephen, Annis, Alix, Rathmullen, Lloydminster, Chaplin, Summerland, Golden, Chilcotin, Ottawa, Gravenhurst, Cranbrook

23. Sion, Caldwell, Harmattan, Halkirk, Macleod, Threehills Creek, Waitefield, Prince, Schreiber, Matheson, Madoc, Midland, Lucknow, Kakabeka Falls, Birnam, Bruce Mines, Point Lepreaux, St. Stephen, Gull Lake, Esterhazy, Rathmullen, Lloydminster, Glenbryan, Maple Creek, Chaplin, Golden, Tobacco Plains, Southampton, St. John, N.B., Port Arthur, Grand Manan, Truro, Fredericton, Delia, Gleichen.

24. Loch Sloy, Cartwright, Rapid City, Waitefield, Brandon, Almasippi, Oakbank Schreiber, Birnam, Gull Lake, Peace River Crossing, Muenster, Cannington Manor, Glenbryan, Pense, Maple Creek, Chaplin, Port Stanley, Port Arthur, Crescent Lake, Delia, Cranbrook.

25. Rapid City, Port Dover, Matheson, Muenster, Chaplin, Winnipeg, Crescent Lake, Cranbrook.

26. Georgetown, Macleod, Port Dover, Owen Sound, Haliburton, Birnam, Shawinigan Falls, Minnedosa, Kingston, Barrie.

27. Dunstable, Okotoks, Westport, Georgetown, Deer Park, Threehills Creek, Waitefield Agincourt, Beatrice, Renfrew, Paris, Montague, Montreal River, Madoc, Midland, Lakefield, Lucknow, Haliburton, Hamilton, Brantford, East Toronto, Brome, Lake Edward, Chaplin, Okanagan Mission, Quebec, Ottawa, Kingston, Toronto, Montreal, Haileybury, Lindsay, Gravenhurst, Rossland, Peterboro',

28. Sion, Priddis, Rapid City, Loveland, Aitkensville, Morden, Chicoutimi, Sherbrooke, Lake Edward, D'Israeli, Chaplin, Grand Forks, Quesnel, Chilcotin, Minnedosa, Berens River, Crescent Lake.

29. Sion, Mayerott, Loch Sloy, Priddis, Cartwright, Loveland, Hillview, Carberry, Morden, Almasippi, Oakland, Chaplin, Chicoutimi East, Cannington Manor, Grand Forks, Winnipeg, Fredericton.

30. Sion, Loch Sloy, Gretna, Loveland, Schreiber, Kakabeka Falls, Bruce Mines, Muenster, Maple Creek, Chaplin, Quill Lake, Port Arthur, Crescent Lake.

FORECASTS FOR JUNE, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1215. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per centage.
Alberta	73	58	13	2	88·4
Saskatchewan	82	55	20	7	79·3
Manitoba	80	58	12	10	80·0
Lake Superior	105	66	24	15	71·3
Lower Lake Region	117	91	21	5	86·8
Georgian Bay	115	93	16	6	87·8
Ottawa Valley	107	73	28	6	81·3
Upper St. Lawrence	107	82	21	4	86·4
Lower St. Lawrence	110	87	19	4	87·7
Gulf	111	88	19	4	87·8
Maritime Provinces West	104	79	20	5	85·6
Maritime Provinces East	104	71	26	7	80·8
Total	1215	901	239	75	84·0

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.
July 26, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. JULY, 1911. No. 7.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

In the southern interior of British Columbia there were several very warm days. On the 13th, 14th, 15th, 16th, 24th, 25th and 28th, temperatures exceeded 90° and, at a few points, 100°; while on the majority of the remaining days the maxima exceeded 80°. At Alberni in the interior of Vancouver Island higher than 100° was recorded on the 14th, 15th, 16th and 24th. In the southern portion of the Island, however, no such extreme heat was experienced. In the Cariboo district there were several days on which the temperature did not exceed 70° and seven nights during which the thermometer dropped to 40° or lower.

Showers occurred frequently during the first week in the Kootenays and in the Okanagan Valley but the remainder of the month was very dry. There were but few districts in the province where the rainfall of the month was not considerably less than normal.

The month of July was quite cool and wet in Alberta and Saskatchewan. The mean temperatures of the month were about 5° lower than the normal in eastern Alberta and in Saskatchewan, and about 2° lower in western Alberta, no really warm days occurring till the last week. Showers were of very frequent occurrence throughout the month and were often accompanied by high winds and hail. Frost sufficient to cover water with a thin film of ice occurred in latitude 52° on the 20th.

In Manitoba rain occurred on from eight to thirteen days, the total amount exceeding the normal except locally in the southeast. There were more warm days here than in Alberta or Saskatchewan, 90° was exceeded on a few days in the first and last weeks, but the mean temperatures were about 2° or 3° lower than the normal.

Heat of an intensity unprecedented in this province prevailed in Ontario during the first few days of July. In many places in the Peninsula the thermometer registered 100° or higher on four successive days. 109° was recorded at Stonecliff on the Ottawa River on the 2nd, and 103° at Chatham, Stony Creek, Renfrew and Toronto. The heat was greatest during the first six days, but continued very great until the 12th, from which day until the 24th mean daily temperatures fluctuated within a degree of the normal. From the 24th to the 28th the weather was several degrees cooler than normal with night temperatures below 50° and at a few places below 45°. During the last two days of the month very warm weather again prevailed throughout the province

In the southwestern counties of Ontario a drought prevailed during the first two weeks, but showers occurred several times during the remainder of the month. Local thunderstorms at the end of the first week relieved the drought somewhat in central and eastern Ontario, while showers occurred on an average of nine days during the last two weeks. The total rainfall of the month was nearly everywhere in the province less than the normal.

During the first twelve days the weather was very warm in western Quebec and along the Middle St. Lawrence, while in the Gulf counties there were fewer days of oppressive heat. Thunderstorms occurred very frequently in some districts, notably at Chicoutimi West where there were thirteen. Some of these were accompanied by violent winds which caused much damage. The total rainfall measured a little less than the normal except in the Gulf counties, where local excess was in every instance due to heavy downpour accompanying a single thunderstorm, and affecting a small area.

In southwestern New Brunswick, Prince Edward Island, and all Nova Scotia except Cape Breton Island, the rainfall of the Maritime Provinces was less than the normal, although well distributed throughout the month. There were many days of high temperature, 90° having been exceeded on from three to six days at points in the interior. The mean temperatures of the month were everywhere four degrees higher than the normal.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for July was subnormal over Manitoba and the northern districts of Ontario and Quebec, also locally in the Central Valleys of British Columbia; the largest negative departures occurring north of Lake Superior. Positive departures were pronounced in Alberta, where there was a difference of 0·14 of an inch at Edmonton and 0·10 of an inch at Calgary. In other parts of the Dominion where the value was above average the amount of divergence was small.

HIGH AREAS.

Anti-cyclonic activity during July was marked over the western parts of the Continent, while east of the Lake Region the usual summer type prevailed. Areas of high barometric pressure were, as a rule, first observed over the Pacific States and British Columbia, and passed into the Western States and Provinces as fairly pronounced systems, thence drifting eastward with diminishing energy.

The courses of areas which were sufficiently well defined for the purpose were charted, to the number of six, in all.

LOW AREAS.

The cyclonic systems of the month were generally of the summer type, but one area which crossed the Continent between the 21st and 26th was accompanied in the Lake Region by a storm of violence exceptional for the season of the year.

Most of the areas were first observed over Western Canada and moved eastward, north of the Lake Region to the Gulf of St. Lawrence; some few moved southeast to the Western States, and then recurved northeast to the Gulf of St. Lawrence. One area, apparently of West India origin, passed up the Atlantic Coast and over the Maritime Provinces during the 27th, 28th and 29th.

During the early part of the month an intense heat wave swept over Ontario and Quebec, accompanying the passage of a moderate depression which was drifting slowly eastward north of the Lake Region.

The paths of ten areas were charted, and in addition some local movements were noted in the Pacific Coast Region.

TEMPERATURE.

In Vancouver Island, the Kootenays, and the Okanagan Valley the mean temperature of the month was between 1° and 2° above normal, but in the Cariboo region and in the northern districts of British Columbia generally there was a deficiency.

Mean temperatures were about 2° less than the normal in northwestern Alberta, and elsewhere in the same province and in Saskatchewan were 3 to 6° less. From Manitoba a deficiency of 2° was reported.

The exceptional heat of the early days of the month in Ontario was counterbalanced by cool weather in the third week, and resulting mean temperatures were not more than 3° above normal. In Quebec the excess over normal was about 3° and in the Maritime Provinces 4°.

The highest and lowest temperatures recorded in each Province during the month of July, 1911, were:

	HIGHEST.	LOWEST.
British Columbia	103° at Alberni on the 14th	28° at Wilmer on the 5th.
Alberta	95° at Lawrence on the 25th and at Medicine Hat on the 25th & 26th	28° at Blairmore on the 5th.
Saskatchewan	93 at Kelvinhurst on the 29th	32° at Scott Lake on the 12th.
Manitoba	98° at Aweme on the 7th	35° at Pierson on the 27th.
Ontario	109° at Stonecliff on the 2nd	32° at Matheson on the 17th.
Quebec	98° at St. Anne de Bellevue on the 3rd and at Shawinigan Falls on the 9th	40° at Abitibi on the 29th.
New Brunswick	95° at Fredericton and Chatham on the 6th	45° at Sussex on the 8th.
Nova Scotia	95° at Wolfville on the 6th	42° at Port Hastings on the 6th and 18th.
P. E. Island	88° at Charlottetown on the 6th	52° at Charlottetown on the 8th.

PRECIPITATION.

The rainfall was less than the normal over the greater part of British Columbia, but in Alberta, Saskatchewan and Manitoba it was for the most part considerably in excess. Locally, however, there were small deficiences, as in the neighbourhood of Prince Albert and of Moosomin. There was a pronounced deficiency in Ontario and Quebec, although an excess occurred over several small areas, due in every case to a heavy rain accompanying a single thunderstorm. In the Maritime Provinces excess was confined to northern New Brunswick and Cape Breton Island.

WINDS, JULY, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
British Columbia.							
Victoria	5461	437	29		7	8	S.W.
Point Garry	6938	427	25		11	12	
Triangle Island	7114	478	30	1			
Alberta.							
Banff (Sulphur Mt.)	10576	595	38	4	12	12	S.W.
Calgary	5127	369	25		3	7	W.
Edmonton	4736	315	19		1	7	W.
Saskatchewan.							
Prince Albert	3957	272	19			6	S.W.
Swift Current	7312	459	34	1	9	11	S.W. W. N.W.
Qu'Appelle	4290	446	19		1	2	
Manitoba.							
Winnipeg	9516	504	30	2	13	11	Variable.
Ontario.							
Port Arthur	7438	458	32	1	11	5	W.
Parry Sound	5184	434	25		1	7	S.W.
Southampton	4742	272	25		1	6	S.
Woodstock	5735	573	30	1	3	11	S.W.
Guelph	6413	541					N.W.
Toronto	6545	617	32	3	4	7	S.W.
Quebec.							
Quebec	7797	461	34	3	8	9	S.W.
Father Point	8208	687	39	6	9	5	W.
Anticosti	8382	450	31	2	12	7	S.E.
Maritime Provinces.							
St. John	5851	513	34	1	6	7	S.
Pt. Lepreaux	6801	680	38	3	4	5	S.W.
Halifax	6964	492	33	2	6	8	W.
Flat Point	7743	598	28		11	11	S.W.
Charlottetown	5469	382	21		3	6	W.
Keewatin.							
The Pas	7090	528	30	2	3	10	N.N.W.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JULY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n.	Highest.	Date.	Lowest.	Date.	Mean daily range.
BRITISH COLUMBIA				in.	in.	in.	in.								
Alberni (Beaver Creek)	49 15	124 49	300					61·9	0·6	16	[illegible]	14	40·0	11	37·1
Agassiz	49 14	121 31	52					66·0	+1·1	17	91·0	15-24	42·0	[illegible]	25·7
Atlin	59 35	133 38	2240	30·12	30·53	29·80	0·73	52·8		5	76·5	31	31·0	10-12	23·3
Barkerville	53 2	121 35	4180	30·01	30·40	29·73	0·67	52·7	1·8	23	78·0	24	32·0	12	22·2
Bella Coola	52 40	126 51	150					61·5	0·8	14	91·0	16	38·0	12	28·0
Chilcotin (Big Creek)	51 40	123 0	3100					59·1		8	91·0	15-24	34·0	12-26	31·2
Cranbrook	49 30	115 50						61·4		3	91·0	17-25	32·0	5-7	33
Clayoquot	49 11	125 47	10					58·7	0·6	12	81·5	17	41·0	10	21·5
Cowichan (Tzouhalem)	48 25	123 42	170					63·3		7	92·0	15	41·0	11	25·9
Chilliwack	49 10	121 57	21					64·1	0·8	11	93·0	15	44·0	4-11	24·0
Enderby	50 32	119 7	1180					66·6		3	96·0	25	38·0	5	33·0
Fort St. James (Stuart's Lake)	54 28	124 12	2280					55·8	0·4	13	80·0	16	30·5	12	25·9
Fairview	49 11	119 36								2					
Fruitvale	49 9	117 31						62·9		2	96·0	25	[illegible]	5-17	57·8
Glacier	51 14	117 29	4072					56·1	1·8	15	84·0	28	31·0		26·0
Golden	51 16	116 55	2550					59·6	2·2	10	90·0	25	35·0	12	28·7
Grand Forks	49 2	118 27						67·5		1	100	25	43·0	5-12	31·5
Greenwood	49 5	118 49								1					
Holberg	50 39	128 18						57·8		4	82·1	17	[illegible]	12	13·9
Hedley	49 35	120 10						68·6		6	99·0	15	47·0	4-11	28·5
Hedley (Nickel Plate)								[illegible]·5		7	82·0	16	27·0	11	25·5
Hope	49 23	121 25						66·9		2	94·[illegible]	14-15	47·5	11	24·1
Ikeda Bay	52 17	131 7						55·6		4	68·0	19-21	43·0	9-11	7·9
Kamloops	50 41	120 30	1215	29·91	30·40	29·62	0·78	70·0	+0·3	18	99·[illegible]	15	[illegible]	12	28·8
Ladner	49 5	123 4						63·5	−2·2	10	81·0	16	44·0	10	19·4
Massett, Q.C.I.	53 58	132 9	30					56·8	1·[illegible]	14	77·0	19	36·0	11-25	14·6
a Nanaimo	49 10	123 37	125	29·96	30·26	29·66	0·60	61·7	1·7	11	92·7	15	47·4	5	20·0
Nicola Lake	50 9	120 30	2120					63·3	−1·2	16	[illegible]	16	42·0	4	27·3
North Nicomen	49 12	122 2	59					65·0	1·4	9	92·0	15-17	[illegible]	12	23·7
New Westminster	49 13	122 54	330					64·0	−0·9	24	90·4	17	45·8	4	21·7
Nelson	49 29	117 21	1760					66·3		9	93·0	25	44·0	12	26·5
Needles	49 10	118 9						64·7		3	89·0	25	37·0	4	28·8
Okanagan Mission (Kelowna)	49 52	119 29	1200					66·9	1·8	13	95·5	16	42·0	12	[illegible]
Princeton	49 29	120 29	1650					63·6	0·7	17	98·0	15	37·0	12	
*Penticton	49 29	119 35						66·3		[illegible]	96·0	25	44·0	1	
Pemberton Hatchery	50 20	122 33						65·3		4	98·0	16	44·0	12	33·1
Prince Rupert	54 18	130 18	170	30·12	30·45	29·78	0·67	56·4		7	83·0	17	40·0	4	12·8
Quesnelle	52 59	122 30	1700					63·5	2·6	16	93·0	16-25	26·0	12	31·2
Revelstoke	51 0	118 6	1476					61·0	1·2	10	91·0	16	38·0	5-17	33·6
Rossland	49 5	117 48	3100					64·1		8	88·5	17	43·0	5	22·0
Ruskin (Stave Falls)	49 16	122 23	125					67·3		2	96·0	15-23	40·0	3	32·8
Salmon Arm	50 42	119 35	1152					66·5		6	96·0	16-25	39·0	5	31·0
Salmon Arm (Ex. Farm)								66·5		1	96·5	16-25	43·0	12	33·4
Steveston (Garry Point)	49 21	123 17						61·6	+1·2	16	82·0	15	44·0	4	17·6
Swanson Bay	50 37	126 53						59·2		3	85·0	15	45·0	2-11	16·1
Salt Spring Island	48 50	123 29								2					
Summerland	49 37	119 40	1100					68·7		5	96·0	16	46·0	12	26·3
Sooke	48 41	123 44	25					58·8		1	87·0	17	40·0	4	22·9
Stewart	56 1	130 1	215					58·3		1	87·0	17	41·0	13	22·7
Tobacco Plains (Elko)	49 1	115 5	2681					65·6	+0·2	16	95·1	26	39·0	5	26·5
Triangle Island	50 52	129 5	680							1					
a Tranquille	50 41	120 29		28·77	29·16	28·47	0·69	69·7	—	3	100·0	16	45·0	12	30·2
Vernon (Coldstream Ranch)	50 14	119 15	1557					67·1	+0·8	18	97·0	16-25	43·0	4-12	30·6
Victoria	48 24	123 19	85	30·35	30·36	29·76	0·60	62·3	+1·5	19	89·5	16	44·7	4	22·1
Vancouver	49 17	123 5	136	30·05	30·36	29·74	0·62	63·9	+1·1	11	90·2	15	45·9	11	19·7
Winter Harbour	50 32	128 3						57·8	+0·7	16	86·0	17	41·0	20-21	19·5
Wilmer	50 31	116 14						60·8	—	2	95·0	16	28·0	5	35·6

STATION.	Mean temperature of dew point.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity: Mean miles per hour.	Highest day's velocity.	Date and direction from.
Atlin			6	2	1	0	0	6	39	1	3	3	9	62	4·3	16·0	29 S.
Barkerville		76	5	4	0	1	0	1	0	8	0	1	51	62	1·5	20·0	25 SW.
Kamloops		57	[illegible]	1	2	[illegible]	6	8	[illegible]	0	23	4	9	62	1·6	11·0	1 SW.
a Nanaimo		75	2	1	0	2	0	6	0	2	0	33	19	62	[illegible]	[illegible]	14 SW.
Prince Rupert		77	7	15	3	0	5	1	15	10	1	2	22	62	3·4	16·0	23 [illegible]
a Tranquille		65	3	2	8	12	2	1	1	7	11	17	0	62			
Victoria		65	4	2	5	2	2	2	9	30	2	3	7	62	8·3	27·0	6 SW.
Vancouver		72	3	2	3	0	3	7	2	3	13	11	20	62	3·4	12·0	11 SW.

STATION.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with precipitation.	[illegible]	No. of [illegible]	No. of [illegible]	No. of [illegible]
Alberni (Beaver Creek)	[illegible]	0·78	0·[illegible]	1				
Agassiz	1·12	1·[illegible]	0·12		2[illegible]	0	0	
Atlin	0·41		0·12	11	20	0	0	0
Barkerville	2·12	0·90	0·50	9	22	0	0	0
Bella Coola	0·93	0·88	0·29	9	[illegible]	0	0	0
Chilcotin (Big Creek)	0·33		0·28	2	[illegible]	0	2	0
Cranbrook	0·40		0·10	1	20	0	0	0
Clayoquot	1·17	0·90	0·49	4	25	0	0	0
Cowichan (Tzouhalem)	0·41		0·11	1	[illegible]	0	0	0
Chilliwack	1·29		[illegible]	7	24	0	0	2
Enderby	2·06		[illegible]	7	25	0	0	0
Fort St. James (Stuart's Lake)	[illegible]	0·22	[illegible]	7	21	0	[illegible]	[illegible]
Fairview								
Fruitvale	0·80		0·41	7	21	0	0	0
Glacier	[illegible]	[illegible]	[illegible]	9	22	0	0	0
Golden	[illegible]		[illegible]		[illegible]	0	1	0
Grand Forks	[illegible]		[illegible]		[illegible]	0	1	0
Greenwood								
Holberg	[illegible]		[illegible]	1	7	[illegible]	0	
Hedley	[illegible]		[illegible]		[illegible]	0	0	[illegible]
Hedley (Nickel Plate)	0·31		[illegible]		[illegible]	0	0	0
Hope	[illegible]		0·19	7	[illegible]		1	
Ikeda Bay	[illegible]		[illegible]		[illegible]		0	
Kamloops	0·78	0·48	[illegible]		[illegible]		0	0
Ladner	0·90	[illegible]	[illegible]		[illegible]		0	[illegible]
Massett, Q.C.I.	[illegible]	[illegible]	[illegible]	13	18		0	
a Nanaimo	[illegible]	[illegible]	[illegible]	1	[illegible]	0	0	
Nicola Lake	[illegible]	1·18	[illegible]		[illegible]	0	1	0
North Nicomen	1·61	[illegible]	[illegible]	6	[illegible]	0		
New Westminster	[illegible]	[illegible]	0·27		[illegible]	0	0	0
Nelson	[illegible]		[illegible]		[illegible]	0	[illegible]	0
Needles	[illegible]		[illegible]	2	[illegible]		0	0
Okanagan Mission (Kelowna)	[illegible]	[illegible]			[illegible]	0	1	
Princeton	[illegible]	[illegible]	1		[illegible]	0	[illegible]	0
*Penticton	[illegible]		[illegible]		[illegible]	0	0	0
Pemberton Hatchery	[illegible]		0·17	2	[illegible]		0	
Prince Rupert	6·04		2·06	14	17	0	0	4
Quesnelle	1·84	+0·38	0·50	8	23	0	1	0
Revelstoke	2·57	0·14	0·40	11	25	0	2	0
Rossland	1·10		0·42	[illegible]	26	0	2	0
Ruskin (Stave Falls)	1·97		0·96	4	27	0	0	0
Salmon Arm	1·70		[illegible]	9	22	0	3	0
Salmon Arm (Ex. Farm)	[illegible]		[illegible]	6	25	0	0	0
Steveston (Garry Point)	[illegible]	0·38	0·42	4	27	0	0	0
Swanson Bay	4·04		1·50	11	25	0	0	[illegible]
Salt Spring Island								
Summerland	[illegible]		0·16	3	28	0	1	0
Sooke	[illegible]		0·10	1	30	0	0	5
Stewart	[illegible]		1·44	6	25	0	0	0
Tobacco Plains (Elko)	0·87	0·88	0·22	6	25	0	3	[illegible]
Triangle Island								
a Tranquille	0·42		0·29	[illegible]	26	0	2	0
Vernon (Coldstream Ranch)	1·32	+0·11	[illegible]	7	24	0	0	0
Victoria	0·14	0·21	0·08	3	28	0	0	0
Vancouver	0·92	0·46	0·46	5	26	0	2	0
Winter Harbour	1·78	1·28	0·75	3	28	0	0	0
Wilmer	0·70		0·34	4	27	0	0	0

YUKON :—																																					
Carcross	60	11	134	34	2171																																
Dawson	61	4	139	20	1200	30.15	30.79	29.82	0.97	60.2	—	9	83.0	3 5	37.0	21	27.9			8	3	1	1	1	1	0	6	41	62	1.37		0.35	9	22	0	0	0
White Horse	60	15	135	0	2075																																
ALBERTA—																																					
Athabasca Landing	51	43	113	17	1650					57.9	—	9	83.0	24	31.0	21	24.6			0	2	1	1	2	2	16	1	0	31	2.30		0.18	9	22	0	1	0
Alix	52	21	113	10						57.3	—	7	83.0	25	38.0	5	20.6													1.44	—	0.95	16	15	0	2	2
Banff	51	10	115	34	1542	30.02	30.49	29.71	0.78	55.8	-1.1	16	86.2	25	30.5	5	28.6		4	3	10	1	2	0	26	2	2	16	62	1.38	1.28	0.28	11	20	0	3	0
Blairmore	49	40	114	30	4225					55.8	—	2	87.2	25	27.7	5	32.2													1.38	—	0.75	7	24	0	1	0
Calgary	51	2	114	2	3389	29.97	30.40	29.50	0.90	56.8	3.9	27	88.0	25	33.0	5	21.0		3	5	5	3	7	2	1	5	31	3	62	2.17	0.13	0.68	17	11	0	4	0
Cardston	49	12	113	18						59.4	—	7	89.0	14	34.0	26	32.2													2.82		0.78	6	25	0	0	0
Didsbury	51	40	114	8	3300					57.0	5.1	10	86.0	25	36.0	12	22.8			1	1	5	1	2	1	9	10	1	31	2.63	-0.19	0.66	12	19	0	0	0
*a*Dunvegan	55	56	118	35	1305																																
Daysland	55	52	112	17																																	
Delia										56.6		1	81.4	25	31.5	12	23.0		23	8	3	3	6	11	6	1	17	0	55	2.57		0.70	12	19	0	6	1
Edmonton	53	33	113	30	2158	29.96	30.37	29.51	0.86	60.0	1.5	28	87.0	25	40.0	2	21.0		5	9	0	8	0	6	1	27	10	1	62	5.83	2.08	0.82	26	11	0	7	0
Eckville	52	23	114	22						54.0		3	83.0	26	30.2	12-13	26.0													3.63		1.77	8	23	0	3	0
Endiang	52	0	112	0	2795					56.8		1	85.0	25	36.2	11	22.3													3.51		0.66	11	2[illegible]	0	0	0
Fort Vermilion	58	27	116	3						58.7		6	84.0	24	32.2	20	27.6													1.81		0.42	9	22	0		0
Gleichen	50	59	112	51	2952					59.3		9	92.[illegible]	25	36.5	5	26.7													1.9[illegible]		0.7[illegible]	[illegible]	26	0	0	1
Gilt Edge	52	59	110	43						56.5		2	80.6	6	31.0	20	23.5													2.88		0.58	16	21	0	0	
Hillsdown	52	11	113	29	2806					58.1	—	7	84.0	25	36.0	20	22.3													3.88		1.10	15	14	0	9	
High River	50	35	113	53	3394					57.0	—	9	89.0	26	33.0	5	27.4													1.81		0.51	11	17	0	0	0
Harmattan	51	45	114	23	3500					53.3		4	84.0	26	30.0	5	26.6													2.93		0.60	19	12	0	7	0
Halkirk (Emsburg)	52	17	112	10						56.4		2	85.0	25	36.0	20	23.0			1	8	3	8	3	9	13	14	0	62	1.16		0.68	18	13	0	8	0
Lethbridge	49	42	112	51	2961					61.5	3.7	10	91.8	26	41.0	5	25.5													2.33	-0.40	1.10	10	21	0	6	0
Lethbridge (Exp. Farm)	49	43	112	51						60.1		1	92.5	25	37.9	5	27.2													2.27		1.05	11	20	0	0	0
Lacombe	52	58	113	14	2783					56.6	—	1	85.0	25	33.9	8	21.8													4.39		1.16	29	14	0	0	0
Lawrence	50	16	113	26						60.1	—	5	95.0	25	33.0	3 31	36.6													1.68		0.45	11	20	0	0	
Lunnford	54	33	114	19						56.4		2	85.1	25	31.0	2	24.1													1.25		0.62	17	14	0	1	0
Loveland	52	30	111	59						58.4		2	88.0	25	32.0	20	24.6			0	1	2	7	3	6	8	15		45	2.45		0.55	12	19	0	8	0
Medicine Hat	50	1	110	37	2161	29.91	30.55	29.44	1.11	65.1	3.0	27	95.0	25 26	42.0	13 20	28.6		2	6	3	3	1	4	1	15	12	11	62	1.65	0.22	0.54	15	17	0	6	0
Macleod	49	44	113	24	3128					61.2	-2.3	11	90.0	26	40.0	5	27.0													2.77	1.06	1.30	12	19	0	4	0
Peace River Crossing	56	15	117	15						59.5		4	92.0	24	33.0	20	24.6													4.08		1.45	9	22	0	1	0
Pembina	51	12	114	0						56.9		3	83.0	26	32.5	20	23.7			2	4	0	4	1	10	21	15	5	62	2.71		0.25	11	17	0	0	
Pakan (Victoria)	54	0	112	31						57.4	—	7	83.5	25	35.0	2	23.2			1	5	3	1	2	14	18	13	5	62	2.11		0.30	16	15		5	0
Pincher Creek	49	0	114	4	3750					58.6	2.3	15	85.0	26	32.0	5	25.0													2.76	0.01	1.0[illegible]	12	19	0	12	0
Red Deer	52	16	113	49						55.9	3.0	13	84.0	25	34.0	3	24.6			1	1	0	7	8	0	7	7	0	31	1.85		1.26	16	15	0	5	
Spirit River	55	40	118	47						56.0		2	84.0	24	20.0	20	21.8													2.81		0.70	16	15	0		
Sundial	50	6	112	31						60.1		1	92.0	25	40.0	30	27.2													2.03		0.65	10	21	0	0	
Threehills Creek	51	30	113	11						56.9	—	9	81.0	25	35.0	12	25.0													3.32		0.86	12	19	2	7	0
Wetaskiwin	52	58	113	23	2480					57.3		9	85.0	26	36.0	20	20.8													1.19		0.25	12	19	1	1	0
Waitefield	53	29	111	38	2000					56.9		7	84.0	25	36.0	20	22.1			4	4	5	1	3	3	22	25	23	93	3.05		0.56	20	11	2	10	
SASKATCHEWAN—																																					
Battleford	52	41	108	20	1620	29.93	30.38	29.50	0.88	55.2	4.8	21	84.0	24	38.0	19	22.0	71		2	4	0	6	0	8	13	19	11	93	3.39	1.28	1.19	14	17	0	0	
Broadview	50	23	102	33	1960					58.7		7	92.0	1	31.0	17	28.5													2.00		1.19	[illegible]	[illegible]			
Brownlee	50	45	106	0						58.5	—	2	83.0	14	36.6	21	25.6			3	0	2	1	4	2	14	4	1	31	2.43		0.77	12	19	0	0	0
Chaplin	50	26	106	39	2202					57.4	7.0	26	84.0	6	35.0	23	25.5			0	6	0	1	0	3	1	20	0	31	2.05	0.20	0.49	16	15	1	11	0
Cannington Manor	49	13	102	2	2064																																
Crescent Lake	50	59	102	25	1658					58.3		7	84.3	27	37.0	17	24.5			1	0	1	1	4	3	8	13	0	31	2.35		0.75	13	18	1	2	
Cumberland House	53	56	102	16						63.4		1	90.0	26	34.0	1	19.0													3.96		1.02	8	23	0	0	0
Duck Lake	52	51	106	20																																	
Estevan	49	12	103	1	1858					61.4		8	88.0	3	43.0	10	24.0			3	1	0	1	7	4	4	7	4	31	2.60		0.27	6	25			
East End	49	31	108	49																																	
File Hills	51	1	103	31																																	
Grenfell (Brownhill)	50	23	102	53	1957					58.0	4.5	19	86.0	3	42.0	21-23	29.9													2.19	0.06	0.76	8	13	0	0	
Glenbryan (Larchmount)	49	54	107	27						58.5		1	83.5	30	36.2	24	27.3			1	10	1	7	0	3	29	11	0	62	2.10		0.45	16	15	1	2	
Humboldt	52	12	105	5						56.9		4	84.0	27	36.0	11	23.8													1.31		0.50	7	21		0	0
Hubbard (Drumague)	51	5	103	21						55.7		4	82.0	27	37.0	16	21.7													0.90		0.3	3	28	0	0	
Indian Head	50	28	103	40	1924					59.0	— 5.4	21	86.0	15	36.0	16	21.8			11	3	0	1	2	12	16	39	9	93	3.03	0.57	0.82	11	20	0	0	
Kelvinhurst										59.9		1	93.0	20	31.0	11	35.5													0.94		0.32	5	26	0	0	0
Lloydminster	53	18	110	0						55.8	—	4	80.9	26	36.5	16	20.0													3.92		0.91	20	11	0	3	0
Lanigan	51	51	105	2																																	
Luseland	52	5	109	21						55.9	—	8	[illegible]	25	33.0	9	24.6													3.50		0.70	11	17	0	0	0
Lost River										56.8		1	85.0	27	38.0	3	22.[illegible]													1.29		0.39	10	21	0	1	
Moose Jaw	50	21	105	35	1759	29.89	30.36	29.46	0.90	59.9	3.9	16	86.0	6	38.0	21	24.6	78		10	18	1	1	0	8	11	31	13	93	3.66	-1.29	1.47	13	18	0	1	0
Moosomin	50	0	101	37	1884					59.8	-2.9	12	87.0	26	36.0	17	22.8			1	0	3	0	9	1	7	10	0	31	0.57	1.48	0.32	2	29	0	0	
Muenster (St. Peter's Monastery)	52	0	105	0	1870					55.2		6	82.0	26	35.0	17	20.6			0	13	0	0	0	11	0	4	0	31	8.70		3.60	7	24	0	1	0
Melfort	52	47	104	30						57.8		2	86.0	26	35.0	3	23.3													4.28		0.55	11	20	0	0	0
Maple Creek	49	55	109	28						56.9		1	83.0	25	33.8	13	25.7													5.54		2.11	10	21	0	0	1
Oliver	51	46	108	10						57.7		2	81.0	25	35.0	20	21.6													5.77		1.47	12	19	0	0	0
Pense (Gatesgarth)	50	20	105	0	1879					56.2	— 6.3	16	81.0	7	31.0	25	26.8			2	3	2	0	0	3	9	11	0	31	4.85	2.04	1.10	20	11	0	0	0
Prince Albert	53	10	106	0	1432	29.91	30.36	29.32	1.04	58.6	-3.5	25	84.2	25	39.0	24	22.7	81		4	1	2	1	1	5	18	6	24	62	1.98	0.44	0.60	9	22	0	0	0
Prince (Meota	51	0	108	20	1700					56.2	—	4	83.0	25	31.0	22	21.1													3.90		0.71	18	13	0	0	2
Qu'Appelle	50	30	103	47	2115	29.92	30.30	29.52	0.78	57.6	6.3	26	79.0	26	35.0	17	20.5	81		2	3	3	6	3	9	10	26	0	62	3.06	-0.35	0.[illegible]	18	13	0	1	

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. JULY, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest daily velocity.	Date and direction.	Precipitation: Amount.	Difference from average.	Heaviest fall in 24 hours.	Date.	Days.		
SASKATCHEWAN—*Con.*				in.	in.	in.	in.																																
Quill Lake																																							
Regina	50 27	104 37	1885					58.6	3.6	27	89.0	2	38.0	17	23.7																		3.12	2.46	1.04	11	1	0	0	0
Rathmullen	51 20	108 57						57.7		2	85.0	7	31.	20	21.2																		3.62		0.78	16	1	0	2	0
Rosthern	52 40	106 20	1657					57.0	—	1	87.5	7	38.6	21	22.1																		2.89		0.63	12	19	0	0	0
Swift Current	50 20	107 45	2130	29.99	30.11	29.55	0.89	60.8	1.9	25	96.6	11	38.0	20	21.7		66			6	6	3	7	6	17	25	23	0	93				2.46	+0.05	0.48	15	16	0	6	0
Saskatoon	52 15	106 39	1571					58.1	3.6	12	82.4	25	37.0	16	23.0																		1.87	0.70	0.60	12	19	0	0	0
Strassburg	51 5	104 56						57.9		2	80.5	6	36.0	19	23.3																		1.79		0.68	7	24	0	0	0
Scott (Ex. Farm)	52 7	109 30						55.1		1	84.0	25	31.8	12	26.3																		3.06		1.62	19	12	0	0	0
The Pas	53 49	101 15	860	29.82	30.28	29.16	1.12	59.0		2	87.0	26	43.0	17	17.8					4	1	6	0	3	5	30	13	0	62				1.67		2.21	16	15	0	1	0
Waseca	53 6	109 29						56.6		1	79.0	25	35.0	2	21.6					0	1	6	1	1	1	16	5	0	31				1.90		1.1	6	24	1	0	
Yorkton	51 11	102 29						60.8		3	86.0	27	40.0	17	25.5																		1.67		0.86	6	25	0	0	
Yarbo (Fairfield)	50 20	102 4						58.1		4	89.0	27	34.0	17	27.3					5	0	0	1	1	3	4	11	3	31				1.52		0.21	13	18	3	4	
MANITOBA—																																							
Almasippi	49 14	99 20						63.3	0.3	16	89.0	1, 26	37	16	26.8																		1.45	0.46	1.40	9	2			
*a*Awème (St. Albans)	49 42	99 33	1180	28.71	29.03	28.36	0.67	61.6	2.9	16	97.5	7	42.0	25	26.4																		2.20	0.16	1.90	11	17		4	
Brandon	49 51	99 57	1176					62.4	2.2	45	92.5	7	39.9	17	21.3			5		0	8	1	3	2	23	19	27	10	93		11	10 W	2.91		1.42	21	5	0	1	0
Berens River	52 18	97 23	710					63.0		5	93.0	2, 9	39.0	3	17.6					18	0	3	1	10	2	11	16	1	62				1.20		0.10			0		0
Birtle	50 25	101 1	1703																																					
Carberry	49 52	99 20	1258							7	91.0	8																					1.75		0.90	10	21			
Carman	49 31	98 0	872					61.0		7	86.0	27	43.0	17	23.																		0.66		0.16	1	20	0	0	
Cypress River	49 33	99 3	1232					62.2		6	86.0	8	38.0	17	25.2																		1.57		0.70	9	22	0	0	
Dauphin	51 8	100 2	957					62.5		1	91.0	8	45.2	11	21.7																		2.96		0.86	14	17	3	2	0
Hillview	49 55	100 23	1400					62.0	2.1	25	94.0	7	41	17	23.3			3	0	6	4	4	2	6	21	14	36	0	93				4.16	1.13	1.80	10	21	0	7	
Minnedosa	50 15	99 50	1690	29.50	30.26	29.51	0.7	60.3	3.4	28	88.9	26	37.2	25	23.5			5	0														2.02	0.50	0.45	17	14	0	3	
Morden	49 11	98 6	978					63.8		7	88.0	2	41.0	16	25.1					14	2		1	4	6	14	13	8	62				0.98		0.26	8	22	0		
Moose Horn Bay (Aitkenville)	51 15	98 33						63.1	—	2	83.1	1	41.8	31	19.4					12	0	3	2	5	6	11	16	7	62				1.68		0.34	25	11	6		
Ninga	49 14	99 51	1649							1	82.1	25	39.6	21																								0	1	0
Oakbank	49 57	96 42	800					61.4		16	83.0	1	42.3	16	19.9					4	5	0	4	4	2	1	9	1	30				4.47		3.48	8	23	1	4	
Pipestone	49 34	100 58	1400					63.7		11	91.0	8	38.0	17	28.6																		0.29		0.18	4	27	0	0	
Portage la Prairie	49 57	98 17	859					62.7	2.6	23	85.0	1, 26	43.0	15	21.0																		2.14	0.08	0.21	8	22	0	0	0
Portage la Prairie (2)	49 56	98 17						63.9		1	87.0	5	41.5	17	21.8																		2.22		1.18	9	22	0		
Pierson	49 11	101 5	1531					62.8		6	96.0	8	35.0	17	28.2																		1.50		0.75	6	25	0	0	0
Stony Mountain	50 10	97 14	803					61.7	1.0	31	86.0	1, 2	39.0	16	25.6			4	0	9	6	0	1	8	5	23	8	0	60	2.2	4	1 S	3.53	0.67	1.	1	20	1	0	0
Swan River	52 6	101 15	1112					59.9		4	90.0	26	40.0	22	23.1																		2.64		1.25	9	22	0	0	0
Treherne	49 39	98 40	1212					63.4	1.6	15	85.0	1, 26	42.0	23	21.7																		2.06		0.97	13	18	0	2	1
Virden	49 51	100 55	1411					61.3		10	91.0	8	39.0	16	28.6																		1.34		0.50	6	25	0	0	0
Winnipeg	49 53	97 7	760	29.80	30.21	29.46	0.75	61.2	1.7	38	86.2	1	43.4	16	22.1			5	0	6	3	2	4	5	11	19	8	4	62				2.96	0.37	1.38	13	18	1	2	0
ONTARIO—																																							
Alton	43 51	80 5	1250																																					
Aurora	43 57	79 24	886					69.1		4	100.2	5	44.8	27	27.0																		2.10	0.17	0.77	7	21	0	4	0
Agincourt	43 47	79 16	590					71.8	+2.4	15	100.3	3	45.8	27	25.7					2	2	9	10	7	28	17	17	1	93	10.9	2.0	24 SW	3.57	+1.34	1.50	10	21	1	8	0
Barrie	44 23	79 41	820					69.3	0.0	36	101.7	5	46.8	27	22.5			1	0	1	0	7	6	11	15	8	22	23	93	1	18	24 SW	2.80	0.07	0.70	9	22	0	4	0
Beatrice	45 8	79 20	800					67.1	+2.5	36	95.0	1, 5	40.0	27	27.1			3	2	4	1	0	2	11	9	2	25	14	93	1	8	24 SW	1.9	0.92	0.11	6	25	0	0	0
Bruce Mines	46 18	83 55	595					65.6	0.0	13	97.0	2	44.0	11	24.5																		1.37	0.62	2.09	12	19		7	0
Birnam	43 2	81 55	600					70.9	+2.5	28	99.5	5	45.3	26	22.6																		2.35	0.54	0.91	7	24	0	6	0
Brantford	43 10	80 21	750					71.8	+1.5	23	102.0	4	46.0	26	25.2																		2.61	+0.23	1.27	10	2		5	
Bloomfield	43 59	77 21	290					70.1	+0.3	14	93.0	5, 11	48.0	26	22.3																		1.59		0.55	7	24	0	1	
Bancroft	45 1	77 50						68.3	+3.9	20	100.0	5	40.0	26	30.7																		1.37	1.83	1.00	2	20	0	0	0
Copper Cliff	46 30	80 59						67.6		4	98.0	2	41.5	2	21.9																		1.57		0.93	8	23	0	0	0
Clinton	43 32	81 37						69.1		9	99.0	6	45.0	23	24.3					7	2	5	7	7	13	11	10	0	62				1.87		0.67	8	23	0	0	0
Coldwater	44 38	79 40	600																																					
Cottam	42 7	82 45	606					71.3		24	100.0	3	44.0	25	28.0					13	0	1	7	14	15	12	0	0	62				1.22	1.75	0.43	4	27	0	0	0
Chatham	42 23	82 12	595					72.7	+1.8	26	103.0	4	45.0	26	26.8																		1.16	1.58	0.51	3	28	0	0	0
Collingwood	44 31	80 2						70.3	+1.6	15	102.0	5	41.0	28	25.7																		2.98	—	1.00	6	25	0	0	0
East Toronto	43 35	79 18						69.2	—	5	105.0	3	45.0	27	23.5																		1.86	—	0.71	8	23	0	6	0
Elora	43 41	80 24	1274					68.8	+2.2	14	101.5	5	42.0	28	30.3																		1.92	0.54	0.61	9	22	0	0	0
Gravenhurst	44 51	79 20						67.9	+0.9	30	98.0	9	40.0	27	27.2			3	0	3	0	10	10	11	12	16	11	17	93	2.0	6	24 SW	2.21	0.19	0.80	6	25	0	4	0

ONTARIO—*Concluded.*																	
Guelph	43	33	80	16	1050	....	....	....	....	69·7	+ 1·7	25	99·0	5	44·0	18-27	24·5
*a*Grimsby	43	13	79	36	....	29·61	29·89	29·00	0·89	73·4	—	2	105·0	1	49·0	28	24·4
Haileybury	47	29	79	39	687	29·89	30·28	29·30	0·98	68·8	+ 2·1	20	101·9	2	48·2	7	19·3
Hamilton	43	16	79	54	303	....	....	....	....	72·9	+ 0·9	27	102·5	3	51·0	18-28	22·3
Haliburton	45	1	79	8	1050	....	....	....	....	67·8	+ 2·2	24	99·5	5	40·0	27	30·8
Huntsville	45	19	79	8		....	....	....	....	67·5	—	5	95·0	5	46·0	27	23·2
Kenora	49	48	94	32	1102	....	....	....	....	65·7	— 1·2	10	89·0	6	48·0	28	23·2
Kakabeka Falls	48	29	89	26	912	....	....	....	....	61·9	—	3	97·0	1	37·0	16	27·2
Kingston	44	13	76	29	285	29·97	30·28	29·47	0·81	68·6	+ 0·8	37	85·0	3	50·1	27	15·5
Kinmount	44	45	78	38	920	....	....	....	....	66·9	+ 1·9	12	97·5	5	41·0	12	29·0
Lucknow	43	56	81	30	908	....	....	....	....	67·1	— 0·4	25	96·7	5	42·8	22	26·8
Lake Talon	46	15	78	18		....	....	....	....	68·1	+ 3·2	17	96·5	9	42·0	27	26·7
London	42	59	81	13	808	29·99	30·26	29·47	0·79	71·5	+ 1·0	27	101·5	3-4	45·5	27	27·7
Lakeside Home	43	40	79	24		....	....	....	....	66·3	—	7	92·0	2	45·0	26 27	18·5
Lorne Park	43	32	79	37						72·5	—	3	100·0	1	44·0	27	26·7
Lindsay	44	20	78	45	872					70·5	+ 2·1	32	101·2	5	45·5	27	26·4
Lakefield	44	25	78	15	850					71·0	+ 2·5	28	100·0	5-6	50·0	26	19·6
*Midland	44	44	79	53	750					78·1		1	101·0	5	60·0	21	
Madoc	44	30	77	29	575					69·7		7	98·5	5	45·0	27	25·2
Montague	44	56	75	57						71·2		2	99·0	3	45·0	28	26·2
Montreal River	47	8	79	29	....	....	....	....	....	66·8		1	100·0	2	44·0	7 23	26·8
Matheson	48	29	80	26	....	....	....	....	....	63·6	—	1	104·0	9	32·0	17	30·6
*North Bruce	44	23	81	25	....	....	....	....	....	65·9	+ 1·2	23	95·0	5	50·0	26	—
North Gower	45	8	75	43	....	....	....	....	....	71·0	—	8	101·3	5	47·0	26	26·7
Owen Sound	44	34	80	55	597	....	....	....	....	69·4	+ 3·0	33	101·0	3	45·0	1	24·1
Orillia	44	37	79	21	775	....	....	....	....	70·7	—	9	101·0	5	48·0	27	21·2
Ottawa	45	26	75	42	294	29·94	30·21	29·46	0·78	69·9	+ 0·2	28	95·0	3	50·0	27	20·7
*Ottonabee	44	20	78	18	674												
Port Arthur	48	27	89	12	644	29·88	30·22	29·56	0·66	62·8	+ 0·6	31	91·0	2	42·0	16	22·8
Port Stanley	42	40	81	13	592	29·98	30·25	29·50	0·75	69·7	+ 1·0	37	87·7	10	47·6	27	19·3
Port Dover	42	47	80	13	635					70·1	+ 0·5	36	90·5	3-5	40·1	27	17·7
Port Burwell	42	39	80	55	592					69·1	—	8	89·0	4	47·5	18	17·8
Parry Sound	45	19	80	0	635	29·96	30·24	29·29	0·95	70·1	+ 3·5	36	98·0	5	47·0	27	22·2
Point Clark	44	5	81	44	595							39	102·0	9	60·0	25	16·8
Pelee Island	41	50	82	35	585					79·0	+ 1·8	29	97·0	1-30	61·0	25	11·7
Paris	43	12	80	25	840					71·7	+ 1·9	22	102·0	3-4	46·0	18 27	26·8
Peterboro	44	17	78	19	722					69·1	+ 0·0	11	100·0	5	44·0	27	22·4
Porcupine	48	29	81	18													
Providence Bay	45	4	82	14													
Rouville	45	15	78	57	1038					66·0		4	96·0	5	45·0	21 26	25·4
Renfrew	45	26	76	39	446					71·2	+ 3·7	22	102·8	3	45·0	8	28·8
St. Catharines	43	9	79	17	347												
Stonecliffe (Rockliffe)	46	9	78	6	557	29·91	30·26	29·44	0·85	68·2	+ 2·3	21	109·0	2	45·0	11	28·4
Southampton	44	30	81	24	656	29·99	30·25	29·28	0·97	67·7	+ 1·7	35	91·0	5	44·8	18	18·6
Sarnia	42	59	82	24	586												
Stratford	43	23	81	0	1191												
Stony Creek	43	13	79	45	292					73·1	+ 1·8	28	103·0	3	47·0	28	21·2
Schreiber	48	[illegible]	87	15	993					57·3	1·4	12	82·0	2	35·5	17	21·7
Shelburne	44	5	80	17						67·5		2	97·0	6	43·0	27	24·4
Toronto	43	40	79	24	[illegible]	29·97	30·25	29·44	0·84	71·6	2·5	[illegible]	107·2	3	47·7	27	22·0
Uxbridge	44		79	8						69·3			98·0	3-5	44·0	27	23·4
Uplands	45	18	79	25						65·2	1·0	25	96·0	9	39·0	20	31·2
Ursa	44	34	78	4													
White River	48	35	85	16	1242	29·86	30·23	29·33	0·90	64·7	0·5	22	90·0	1-2	35·0	26	21·3
Woodstock	43	8	80	47	980	29·98	30·24	29·44	0·80	69·1	0·5	37	98·0	4	44·0	27	21·4
Welland	42	59	79	17	577					71·7	+ 1·6	25	100·0	4	48·0	18	21·4
Windsor	42	20	83	4	625					73·6	+ 5·7	36	100·0	1	52·0	27	19·2
Wallaceburg	42	35	82	24						72·4		7	99·0	3	48·0	25	23·3
QUEBEC																	
Abitibi	48	43	79	2						65·1	0·8	16	92·0	9	40·0	29	20·0
Anticosti, E. Point	49	6	61	42	30					57·2	1·9	28	67·0	21	47·0	4	
*Anticosti, W. Point	49	52	64	32	30					60·4	+ 1·5	29	72·0	29	51·0		
Brome	45	10	72	36	678					69·2	+ 3·5	1	93·0	3 10	44·0	8 27	22·5
Bicquet	48	25	68	53						57·1	+ 2·7	29	71·0	14	45·0	31	
Clarke City	50	0	66	25						62·1	—	5	85·0	9	45·0	5	19·2
Cape Chatte	49	6	66	45						59·6	— 1·0	30	73·0	28	45·0	15	
Cape Magdalen	49	16	65	20	93					62·1	+ 1·8	29	82·0	17	51·0	30	—
Chicoutimi	48	25	71	5	150							26	—				
Chicoutimi West										79·2		1	92·6	28	47·0	7 24	20·8
Cap Rouge	46	46	71	18						68·5	—	1	93·0	1	46·2	3	22·0
Disraeli	45	55	71	21						67·6		1	93·0	1	42·0	8	28·2
Father Point	48	31	68	19	20	29·87	30·18	29·45	0·73	60·9	+ 3·0	31	76·7	17	46·0	11	16·5
Lake Edward	47	39	72	16	1333					66·1			91·5	1	42·0	11	22·9
Montreal	45	30	73	35	187	29·93	30·21	29·42	0·82	72·8	+ 3·8	37	94·5	3	55·6	23	17·2

ONTARIO—*Concluded.*																							
Guelph	....	....	....	....													1·99	0·54	0·48	10	21	0	1	0
*a*Grimsby	....	....	....	....													2·18		0·84	9	22	0	0	0
Haileybury	....	....			5	1	2	0	7	17	18	5	7	62	1·7	5 29 SW	3·08	0·22	1·28	14	17	3	8	1
Hamilton	....	....															3·33	– 1·20	1·14	5	26	0	2	0
Haliburton	....	....															5·15	+ 1·98	1·50	8	23	0	5	0
Huntsville	....	....																				0	0	0
Kenora	....	....															3·02	0·18	2·06	14	17	0	3	0
Kakabeka Falls	....	....															2·53		1·31	13	18	3	5	0
Kingston	....	....	6	1	1	4	1	6	1	35	9	5	0	62			2·00	0·86	1·15	7	21	0	7	0
Kinmount																	2·83		2·03	9	22	0	0	0
Lucknow																	1·98	0·55	0·76	9	22	0	6	0
Lake Talon																	1·53	1·78	0·51	8	23	3	4	3
London			3	0	0	39	3	18	0	6	7	20	0	93	1·1	1 21 NW	1·98	0·46	0·55	8	23	0	5	0
Lakeside Home																						0	0	0
Lorne Park																	4·18		1·96	8	23	0	0	0
Lindsay			1	1	5	2	1	2	9	15	18	17	21	93	1·3	6 21 SW	2·81	– 0·31	1·42	11	20	0	8	2
Lakefield																	2·98		1·00	12	19	0	0	0
*Midland																	2·73	0·31	[illegible]	6	25	0	2	0
Madoc																	[illegible]		[illegible]	9	22	0	[illegible]	0
Montague																	1·76		0·89	7	28	2	[illegible]	1
Montreal River	....	....															5·01		1·66	10	21	0	5	
Matheson	....	....															—					0	3	0
*North Bruce	....	....															1·34	1·41	0·51	7	21	0	0	0
North Gower	....	....														......	1·10		0·65	2	29	0	2	0
Owen Sound	....	....			10	1	0	0	44	2	2	2	1	62								0	1	1
Orillia	....	....			3	2	0	3	8	6	0	9	0	31			1·09	—	0·31	6	25	0	3	0
Ottawa			4	2	0	3	2	3	6	7	33	0	2	62			3·10	1·60	1·43	12	19	2	5	0
*Ottonabee	....																......							
Port Arthur			5	1	5	6	11	1	1	9	16	11	2	62			3·01	0·82	1·14	10	21	2	1	0
Port Stanley			1	0	0	1	3	3	2	19	15	5	11	62			1·05	– 0·69	1·83	9	22	0	8	0
Port Dover					1	1	2	2	8	10	4	3	0	31			3·11	– 0·11	1·35	7	21	0	2	0
Port Burwell																	2·96	—	1·11	6	25	0	1	0
Parry Sound			1	1	1	2	1	9	1	26	13	3	3	62			2·21	0·89	0·86	7	21	0	3	1
Point Clark																	0·85	1·70	0·45	2	29	0	2	0
Pelee Island																	0·58	2·80	0·25	5	26	0	0	0
Paris																	1·11	[illegible]	0·27	10	21	0	5	0
Peterboro																	1·62	– 1·88	2·17	11	20	0	8	0
Porcupine																								
Providence Bay																	1·89		1·35	6	25	0	4	1
Rouville																	2·64		1·58	9	22	0	0	0
Renfrew																	1·41	3·73	0·62	10	21	1	1	0
St. Catharines																								
Stonecliffe (Rockliffe)			7	11	1	0	8	0	0	5	12	0	36	62			1·71	– 1·57	0·38	9	22	1	[illegible]	
Southampton			5	4	10	2	3	6	27	2	1	[illegible]	1	62			1·06	1·18	0·30	8	23	0	[illegible]	
Sarnia																								
Stratford																								
Stony Creek					1	15	9	7	0	11	19	1	0	93	2·1	10 21 W	1·86	1·21	1·00	5	26	0	[illegible]	
Schreiber																	6·15		1·94	16	1			
Shelburne																	[illegible]		1·05	8	23			
Toronto					4	1	12	2	6	12	18	2	2	62			2·61	[illegible]	0·93	11	20			
Uxbridge																	2·20		0·61	8	[illegible]			
Uplands					8	0	2	0	9	0	29	0	11	62			2·43	[illegible]	0·80					
Ursa																								
White River					1	2	1	1	8	7	17	6	16	62			1·57	1·70	[illegible]					
Woodstock		0	5	1	5	1	[illegible]	6	1	25	17	30	0	93	9	21 W	2·27	1·17	[illegible]		[illegible]			
Welland																	2·72	0·53	1·02	7	24	0	0	0
Windsor																	0·79	1·63	0·21	9	22	0	0	0
Wallaceburg																	1·25		0·70	6	24	0	0	0
QUEBEC																								
Abitibi			5	2	3	2	3	1	19	11	38	16	0	93			1·81	+ 1·90	1·95	5	26	0	0	0
Anticosti, E. Point					1	5	8	2	17	16		1	24	93			2·44		0·73	6	25	0	0	16
*Anticosti, W. Point					1	2	8	14	31	1	15	18	0	93			2·84	0·51	0·91	10	21	0	0	8
Brome					9	0	1	0	14	13	51	2	0	93			1·44	2·82	0·65	10	21	0	0	0
Bicquet					0	31	2	0	1	0	42	17	0	93			0·13	2·81	0·10	2	29	0	0	19
Clarke City					1	2	8	1	2	13	[illegible]	1	0	31			3·43		1·02	15	16	0	4	1
Cape Chatte					2	0	6	1	0	3	35	0	16	93			2·16	0·42	1·50	7	24	0	1	9
Cape Magdalen					1	0	4	1	19	3	11	25	26	93			2·14	0·48	0·88	8	23	1	3	10
Chicoutimi			6	1	0	0	0	43	0	15	0	5	0	93	[illegible]	[illegible] 26 SW	3·98		1·09	19	12	0	4	0
Chicoutimi West																						0	13	0
Cap Rouge																......	3·46		0·88	1	16	0	0	
Disraeli																	2·61		0·62	8	25	0	[illegible]	
Father Point			7	5	1	10	5	1	3	19	13	3	1	62			5·86	+ 3·02	1·78	17	14	0	3	
Lake Edward																	1·73		3·58	10	21			
Montreal			1	0	0	1	0	3	6	11	38	2	1	62			2·17	0·79	0·57	10	[illegible]			

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JULY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

Station	Latitude N.	Longitude W.	Elevation above sea level, in feet	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Difference from average	Years observ'n	Highest	Date	Lowest	Date	Mean daily range
QUEBEC—*Concluded.*															
Perkins Mills	45 38	75 38													
Quebec	46 48	71 13	296	29·91	30·25	29·47	0·78	70·3	+ 4·0	37	93·2	3	52·0	21	20·9
*Roberval	48 31	72 13	352												
St. Anne de Bellevue	45 27	73 59						73·2		5	98·2	3	50·2	8	22·6
Shawinigan Falls	46 31	72 43						67·9		9	98·0	9	45·0	27	25·9
Sherbrooke	45 32	72 5	620					70·1		9	96·5	1	46·8	8	23·6
NEW BRUNSWICK															
Chatham	47 3	65 29	21	29·95	30·28	29·52	0·76	71·0	+ 4·3	37	95·0	6	53·0	8, 27	22·6
Dalhousie	48 4	66 22	39					67·7		31	85·0	8	50·0	8, 11	18·3
Fredericton	45 57	66 36	164	29·96	30·31	29·58	0·73	70·4	+ 4·4	37	95·3	6	49·0	21	24·1
Grand Manan	44 47	66 46	49	29·96	30·29	29·67	0·62	65·3	+ 3·7	27	81·6	13	52·0	5	16·9
Moncton	46 9	64 45	50					69·2	+ 3·9	41	94·5	6	48·0	7	23·5
*Point Lepreaux	45 4	66 28	30					59·5	+ 3·6	33	71·0	7	53·0	26	
St. John	45 17	66 4	70	29·97	30·32	29·59	0·73	65·0	+ 3·7	38	81·5	10	53·5	26, 27	15·2
St. Stephen	45 11	67 16	35												
Sussex	45 38	65 38	69					69·5	+ 4·8	14	93·0	4	45·0	8	24·2
NOVA SCOTIA															
Antigonish	45 38	61 59	50					64·6		1	92·0	4	50·0	4	21·3
Halifax	44 39	63 36	88	29·99	30·33	29·67	0·66	68·7	+ 4·4	37	90·8	13	49·8	8	25·2
Port Hastings	45 39	61 22	45					65·8		19	93·0	10	42·0	6, 18	13·4
Parrsboro'	45 23	64 19	40					66·8	+ 4·3	15	80·0	1, 20	45·0	7	20·8
Sydney	46 10	60 10	35	30·00	30·31	29·64	0·67	67·3	+ 3·7	38	92·0	13	47·3	8	19·0
*Sable Island, E. Point	43 58	59 46	25					62·7	+ 2·8	28	73·0	28	55·0	1, 9	
Truro	45 22	63 18	77					68·5	+ 4·5	38	91·2	6	42·3	8	24·5
Windsor	44 59	64 6	90					69·8		9	93·0	[illegible]	49·0	8	22·1
*Whitehead	45 15	61 8	20					62·1	+ 5·0	30	76·0	20	55·0	1, 31	
a Wolfville	45 7	64 20		29·88	30·23	29·53	0·70	70·0	+ 4·4	12	96·0	6	50·0	8	23·2
Yarmouth	43 50	66 2	65	30·00	30·31	29·65	0·66	64·5	+ 3·6	31	86·2	10	48·8	8	19·5
P. E. ISLAND															
Charlottetown	46 14	63 10	38	29·97	30·30	29·63	0·67	69·9	+ 4·3	36	88·0	6	51·0	8	17·5
Charlottetown (2)	46 14	63 7	75					69·0		1	87·0	6	52·5	8	18·5
Hamilton	46 25	63 48						68·3	+ 3·7	14	86·5	3	55·0	6	15·8
NEWFOUNDLAND															
*Amour Point	51 28	56 51						49·2		19	61	21	40·0	2, 5	
Burin	47 0	55 10	27												
*Cape Norman	51 38	55 52						56·7	+ 6·6	27	72·0	21	41·0	1, 1	
Fogo	49 43	54 17	30	29·98	30·29	29·62	0·67	57·5		1	76·0	21	38·0	10, 11	12·9
*Point Rich	50 42	57 25	35					59·1	+ 1·3	27	72·0	15	48·0	1	
Port aux Basque	47 35	59 10	27	29·97	30·26	29·68	0·58	59·3		3	73·5	2, 5	46·0	8	10·3
St. John's	47 34	52 42	125	29·96	30·24	29·69	0·55	60·5	+ 1·6	30	83·0	26	44·0	3, 6	15·6
BERMUDA—															
Prospect	32 17	64 30	151	30·20	30·40	30·04	0·36	78·3	0·1	20	87·6	26	68·6	10	11·8

Station	Mean temperature of dew point	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm	Total number of observations	Velocity of wind: Mean	Highest	Date and direction	Precipitation: Amount	Difference from average	Heaviest in one day	Date	[illegible]	[illegible]	[illegible]
QUEBEC—*Concluded.*																								
Perkins Mills																								
Quebec			7	8	3	10	3	4	4	2	11	2	0	62				3·80	− 0·63	0·91	14, 17	4	8	0
*Roberval																								
St. Anne de Bellevue																		2·04		0·91	7, 21	0	0	0
Shawinigan Falls																		2·74		1·34	12, 19	0	3	0
Sherbrooke																		3·12		1·02	9, 22	0	2	1
NEW BRUNSWICK																								
Chatham			6	4	1	2	16	6	0	14	19	3	1	62				[illegible]	− 1·05	1·56	18, 1	[illegible]	[illegible]	0
Dalhousie					0	1	13	0	0	0	13	0	1	31				0·93		0·30	8, 23	0	0	0
Fredericton		73	6	1	3	2	5	14	11	26	18	11	3	93	7	39	6, SW	5·52	− 0·10	1·33	11, 25	0	[illegible]	7
Grand Manan					1	0	4	5	9	16	11	5	11	62				2·47	− 0·24	0·87	11, 2	0	4	9
Moncton					0	1	1	7	0	5	6	9	2	31				3·20	− 0·61	0·90	9, 22		2	0
*Point Lepreaux			5	4	7	0	15	0	7	27	20	2	0	78	18	[illegible]	24, SW	2·20	+ 1·87	0·73	6, 25	0	3	18
St. John			5	6	3	1	5	11	22	8	1	1	7	62				2·66	− 0·25	0·67	9, 22	1	6	8
St. Stephen																								
Sussex					4	0	0	4	0	5	1	2	21	31				2·84	− 0·04	0·98	7, 23		5	0
NOVA SCOTIA																								
Antigonish																						0	0	0
Halifax			6	4	4	4	4	5	5	8	20	7	5	62				2·48	− 1·08	0·80	11, 20	0	4	2
Port Hastings					0	0	0	5	8	12	0	8	0	31				2·36	− 1·31	0·72	8, 23	0	0	0
Parrsboro'																		2·30		1·08	6, 25	0	0	0
Sydney			6	9	2	5	3	5	0	12	21	3	8	62				3·25	− 0·08	2·00	9, 22	0	[illegible]	0
*Sable Island, E. Point					2	9	0	14	1	20	0	17	[illegible]	93				1·53	[illegible]	[illegible]	4, 27	0		16
Truro			5·8	3	4	5	2	11	15	26	11	3	13	90				1·06	[illegible]	0·57	6, 25	0		2
Windsor																		[illegible]		0·65	10, 21	0	[illegible]	[illegible]
*Whitehead					3	5	12	7	8	40	3	6	0	93				2·25	− 0·80	[illegible]	4, 27	0	[illegible]	[illegible]
a Wolfville			4	1	6	1	3	1	1	6	17	7	17	62				2·18	− 1·40	0·56	6, 25	0	3	2
Yarmouth			5	5	4	[illegible]	1	5	14	25	2	10	1	62				1·71	[illegible]	0·48	9, 22	0	2	12
P. E. ISLAND																								
Charlottetown			6	6	4	2	3	3	14	6	19	5	6	62				1·27	− 1·96	0·53	8, 27	0	4	0
Charlottetown (2)																		1·42		0·46	13, 18	0	0	0
Hamilton					2	2	1	1	0	23	2	0	0	31				3·42		1·78	7, 23	0	0	0
NEWFOUNDLAND																								
*Amour Point					0	0	18	0	0	0	11	1	0	93				[illegible]		[illegible]	2, 24	0	0	1
Burin																								
*Cape Norman					1	7	24	18	17	1	31	1	0	93				1·02	[illegible]	0·30	5, 26	0	0	13
Fogo					0	5	[illegible]	8	14	8	17	1	4	62				3·88		1·04	17, 11	0	2	7
*Point Rich					0	18	5	12	10	32	16	0	0	93				2·95	− 0·55	1·0	5, 26	1	4	0
Port aux Basque			8	17	0	1	26	8	1	4	15	7	0	62				[illegible]		0·88	9, 22	0	0	9
St. John's			7	10	5	11	8	7	7	16	8	0	0	62				2·03	− 1·30	0·68	16, 5	0	0	17
BERMUDA—																								
Prospect			5	0	10	3	3	14	9	11	7	5	0	62				1·06	− 2·30	0·41	9, 22	0	6	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JULY, 1911.

STATIONS.	TEMPERATURE.					PRECIPITATION.				REMARKS.
	Amount in inches	No. of Days 70, or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake	1·51	4	27	0·83	6					Thunder on 21, 28
Annis	1·08	9	22	0·50	8					Lightning on 6
Beaver Lake	0·05	1	30	0·05	6					
Coquitlam	0·12	4	27	0·27	1					
Denman's Island	0·17	2	29	0·11	7					
Ferguson	2·28	7	21	0·70	6					
Goldstream Lake	0·16	3	28	0·05	1					
Hornby Island	0·22	2	27	0·18	1					
Hydraulic	2·30	6	25	1·15	6					
Jordan River	0·40	4	27	0·22	2					
Jordan River (Bear Creek)	0·50	4	27	0·40	1					
Little Qualicum (French Creek, V.I.)	0·10	1	30	0·10	1					
Monte Creek	0·52	9	22	0·20	8					
Naas Harbour	3·58	8	23	1·75	23					
Skidegate	1·93	4	29	0·70	21					Lightning on 15, 25.
Shawnigan Lake	0·22	4	27	0·15	2					
ALBERTA—										
Bardo	1·11	11	17	0·74	6					Thunder on 6, 15, 25. Fog on 4
Bismark	4·16	9	22	1·08	1					
Bruederheim	3·98	16	15	1·04	16					Thunder on 7.
Bittern Lake	5·30	16	15	0·76	6					Thunder on 6, 14, 25, 29.
Brooks	0·95	11	20	0·18	1					Thunder on 10, 16, 17, 22, 23
Conjuring Creek	3·19	7	24	0·80	18					
Coutts										[27, 28, 31.
Campsie	4·88	13	18	0·91	17					Thunder on 6, 14, 16, 17, 22, 25.
Caldwell	2·09	9	22	1·06	30					Thunder on 16.
Dorenlee	6·80	12	19	2·10	1					
Dunstable	1·11	23	8	0·63	16					Thunder on 3, 5, 6, 7, 9, 10, 16, 21, 25, 27, 28.
Grassy Lake	0·50	2	29	0·40	1					
Jumping Pound	2·64	13	18	0·82	19					
Lacombe	2·23	3	28	1·20	24					Thunder on 16, 22, 25.
Loch Sloy	1·90	14	17	0·50	19					Thunder on 10, 16, 17, 22, 23.
Lyndon	2·40	7	24	0·90	5					
Lineham	3·00	4	27	1·25	10					
Macleod	0·54	6	25	0·21	26					
Mayeroft	1·61	8	23	1·03	30					Thunder on 15, 26.
Mayton										
Okotoks	2·31	11	20	0·78	19					Thunder on 2, 11, 25, 26, 29.
Pekisko	2·61	11	20	0·44	26					Thunder on 15. Fog on 17.
Ponoka	1·63	13	18	1·54	1					
Priddis										
Playle Creek	3·15	13	18	0·95	30					Frost on 4. Hail on 15.
Sion	3·24	21	10	0·60	1					Aurora on 28, 29, 30, 31.
Seven Persons	0·70	2	29	0·50	1					Thunder on 4, 5, 6, 7, 8, 12, 14, 15, 16, 20, 21, 22, 24, 25, 27, 28, 29, 30, 31.
Tilley										
Wabamun										
SASKATCHEWAN—										
Carmichael	1·86	4	27	0·70	9					
Coulee										
Elm How										
Forks Swift Current (Gull Lake)	1·51	12	19	0·25	4					Thunder on 7, 17.
Gull Lake	3·16	9	22	0·72	17					
Hanley										
Kindersley										
Kelvinhurst										
Last Mountain	5·97	6	25	5·60	1					
Maple Creek	2·34	15	16	0·19	1					
Meadow Lake	5·25	9	22	1·30	1					
Willow Creek										
MANITOBA—										
Cartwright	1·43	9	22	0·51	22					Aurora on 29. Thunder on 7, 8, 14, 29.
Deloraine	1·33	3	28	0·86	8					Thunder on 7.
Gretna	1·20	5	26	0·32	23					
Norquay	2·85	10	21	1·31	10					Thunder on 7, 8, 12, 14, 17, 27, 29.
Rapid City	4·95	9	22	3·76	7					
ONTARIO—										
Deer Park	2·42	9	22	0·99	10					Thunder on 5, 10, 11, 14, 17, 30.
Dutton	2·35	6	25	0·65	10					Thunder on 3, 19.
Emsdale	3·16	11	20	1·35	6					Aurora on 7. Thunder on 5, 16, 17, 19, 24.
Goderich										
Georgetown	2·05	10	21	0·51	17					Thunder on 5, 9, 10, 11, 13, 14, 16, 19, 30.
Grantham	1·91	9	22	0·77	18					
Grand Valley	1·91	9	22	0·53	20					
MacCue	1·36	5	26	0·62	17					
Orangeville	2·62	8	23	1·09	20					
Princeton	2·37	5	26	0·58	11					Thunder on 10, 11, 14
Sydenham	2·07	5	26	0·90	17					
Strathroy	3·42	7	24	2·08	17					
Watford	1·93	8	23	0·60	16					[16, 17, 20, 24, 27, 28, 29, 31.
Westport	1·17	4	27	0·67	17					Thunder on 5, 6, 11, 12, 13, 14, 15.
Wooler	2·45	6	25	0·77	17					Thunder on 11, 19.
Westminster	1·81	6	25	0·50	10					Thunder on 10.
Wesley	2·86	10	21	0·72	17					Thunder on 11, 19.
QUEBEC—										
Lucerne	0·52	5	26	0·17	26					
Perkins Mills	2·89	7	24	1·50	1					
Quinze Dam	3·91	7	21	1·18	25					Thunder on 1.
Timiskaming	3·11	10	21	0·75	5					
NEW BRUNSWICK—										
Point Escuminac	2·52	6	25	1·05	22					Fog on 1, 5, 19, 20, 21, 25.
NOVA SCOTIA—										
Kentville	1·22	6	25	0·33	28					Thunder on 12, 22, 25.
Liverpool	1·31	5	26	0·53	24					
Milton	0·61	4	27	0·35	25					
South Alton	2·75	7	24	1·11	12					
White Rock	1·69	6	25	0·71	12					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF JULY, [illegible]

Stations	Hours Ending															
		6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	
Victoria		23	52	66	68	66	70	56	72	68	7	70	73	66	31		
Salmon Arm	·	46	56	63	73	78	83	82	78	78	80	84	75	71	60	11	
Nanaimo		61	47	63	68	74	74	72	70	70	73	72	73	72	40		
Vancouver	04	43	56	50	63	65	72	71	66	66	62	60	6	69	53		
Agassiz			46	60	61	63	64	63	62	60	61	61	62	58	29		
Tranquille		63	75	7	83	86	88	92	84	80	80	82	82	75	65		
Summerland	17	65	77	82	82	87	84	84	85	83	82	81	80	75	43		
Kamloops	05	67	78	80	80	86	88	92	84	77	82	76	68	46	47	06	
Edmonton	17	31	49	56	61	63	65	70	66	73	66	56	56	48	41	24	
Dunvegan		11	39	52	53	51	56	60	56	52	49	53	48	30	38	13	
Lethbridge	52	71	72	75	81	81	83	84	75	73	63	61	61	63	50	30	
Lacombe	06	44	51	4	50	58	71	69	70	66	61	64	69	61	53	18	.....
Medicine Hat	13	53	70	86	78	79	73	81	78	76	74	64	65	60	48	15	
Fort Vermilion		31	49	55	62	68	66	70	63	68	74	73	62	54	39	12	
Battleford		07	28	46	49	52	57	45	47	58	50	38	35	32	14		
Indian Head	05	46	63	65	68	76	79	80	70	66	68	67	61	68	53	16	
Moosejaw	36	63	67	73	75	76	77	75	75	74	73	72	72	65	57	23	
Scott	24	52	56	58	67	68	70	67	65	63	60	64	63	63	58	26	
Rosthern	17	50	51	53	56	62	60	67	67	69	57	59	56	55	52	42	02
Brandon	01	17	52	71	77	82	84	76	78	79	68	61	64	54	20	01	
Winnipeg	17	63	67	71	77	85	86	84	67	72	70	64	64	60	49	11	
Haileybury	06	46	51	50	61	63	63	55	58	63	40	63	63	55	48	06	
Gravenhurst																	
Woodstock		29	69	76	80	82	74	77	74	73	73	71	69	67	49	05	
Lindsay			58	66	85	86	84	75	67	67	62	60	56	53	49		
Barrie		50	64	74	74	77	73	73	73	65	60	61	60	63	12	01	
Toronto		21	43	80	81	82	81	78	67	68	68	68	71	57	31	T	
Kingston	06	51	76	81	86	89	93	88	87	88	85	77	74	71	51	02	
Ottawa	01	55	77	81	83	81	83	86	86	84	84	78	70	65	42		
Montreal	5	58	75	77	81	83	81	82	80	81	85	87	78	71	35		
Quebec		25	45	46	71	76	72	54	74	72	68	61	55	36	21	T	
Sherbrooke	08	61	77	76	77	75	74	75	76	75	71	77	73	71	40	02	
Fredericton	03	22	41	52	62	67	76	77	78	74	77	67	65	58	41	07	
Charlottetown	05	42	50	64	71	74	75	77	76	79	75	73	72	57	35	03	

	Victoria	Salmon Arm	Nanaimo	Vancouver	Agassiz	Tranquille	Summerland	Kamloops	Edmonton	Dunvegan	Lethbridge	Lacombe	Medicine Hat	Ft. Vermilion	Battleford	Indian Head	Moosejaw	Scott	Rosthern	Brandon	Winnipeg	Haileybury	Woodstock	Lindsay	Barrie	Toronto	Kingston	Ottawa	Montreal	Quebec	Sherbrooke	Fredericton	Charlottetown
Registered duration in hours	271	319	271	273	226	340	312	331	259	258	329	268	313	262	162	267	327	280	271	275	313	257	300	289	273	278	312	327	327	253	315	270	2[illegible]
Percentage of possible duration	56	64	55	[illegible]	46	69	70	67	51	40	67	53	64	59	32	60	66	57	53	56	64	53	65	57	58	60	73	69	75	53	67	57	[illegible]
Difference from average	0														26	5				0	8		+12	− 0	1	0	+16	+17	+16			+ 3	
Maximum percentage in one day	86	91	82	88	80	92	90	91	93	82	98	90	93	82	75	97	100	96	91	80	91	92	91	86	88	88	96	87	98	89	97	93	[illegible]
Date of maximum	13	13	13	13	17	23	23	13	24	20	13	25	5	15	24	6	20	21	28	6	3	7	18	18	28	20	7	4	27	7	7	26	[illegible]
No. of days completely clouded	1	0	2	3	8	0	0	0	2	5	0	0	0	1	3	1	0	1	3	0	1	1	0	0	0	0	1	1	0	1	0	2	[illegible]

Aurora recorded.

Where the class of aurora is noted by the observer, it is given. I., being brightest, III. the faintest in brilliancy.

1. Aweme III, Aitkensville IV, Port Arthur I, Stonecliff II.

2. Dauphin

6. Aitkensville IV, Agincourt IV, Kakabeka Falls III, Lake Talon, Quebec III, Ottawa II.

7. Wetaskiwin II, Lake Talon III, Schreiber, Emsdale IV, Quebec III, Port Arthur II, Ottawa II, St. John III, Cape Magdalen.

18. Aitkensville IV, Montague, Chaplin IV, Quebec III, Crescent Lake III.

19. Threehills Creek II.

21. Aitkensville IV, Crescent Lake IV.

22. Dauphin.

24. Crescent Lake IV.

26. Threehills Creek III.

27. Aweme II, Aitkensville III, Kakabeka Falls IV, Haileybury II, Yarbo III, Glenbryan I, Estevan IV, Quebec IV.

28. Waitefield III, Aweme II, Aitkensville III, Dauphin, Montague, Lake Talon IV, Renfrew, Sion IV, Haileybury IV, Yarbo IV, Waseca, Winnipeg III.

29. Kakabeka Falls III, Sion III, Haileybury III, Crescent Lake IV.

30. Waitefield III, Sion IV.

31. Sion IV, Yarbo IV.

Thunder recorded:

1. Pincher Creek, Morden, Carberry, Montague, Lake Talon, Perkins Mills, Haileybury, Chaplin, Minnedosa, Nelson.

2. Hillsdown, Halkirk, Red Deer, Waitefield, Threehills Creek, Montague, Chicoutimi, Lake Edward, Okotoks, Ottawa, Fort St. James, Nelson, Delia.

3. Harmattan, Halkirk, Pakan, Loveland, Waitefield, Threehills Creek, Hillview, Carberry, Aitkensville, Lucknow, Renfrew, Chicoutimi, Lake Edward, D'Israeli, Shawinigan Falls, Moncton, Dunstable, Dutton, Fredericton, Quebec, Father Point, Port Stanley, Chatham, N.B., Delia.

4. Harmattan, Eckville, Hillsdown, Halkirk, Red Deer, Threehills Creek, Morden, Almasippi, Aitkensville, Bruce Mines, Schreiber, Providence Bay, Sion, Fredericton, Truro, Chaplin, Halifax, St. John, Yarmouth, Charlottetown, Grand Manan, Delia.

5. Morden Agincourt, Birnam, Brantford, Montreal River, Madoc, East Toronto, Haliburton, Kakabeka Falls, North Gower, Peterboro, Uplands, Lake Edward, Pt. Lepreaux, Dunstable, Sion, Westport, Deer Park, Emsdale, Georgetown, Guelph, Haileybury, Toronto, Quebec, Barrie.

6 Athabasca Landing, Eckville, Hillsdown, Halkirk, Pakan, Loveland, Waitefield, Wetaskiwin, Birnam, Madoc, Montague, Lucknow, East Toronto, Peterboro, Orillia, Renfrew, Brome, St. Stephen, Moncton, Campsie, Dunstable, Bardo, Grand Manan, Golden, Princeton, Quesnel, Bittern Lake, Sion, Westminster, Westport, Fredericton, Gravenhurst Haileybury, Lindsay, Rathmullen, Lloydminster, Chaplin, Montreal, Quebec, Ottawa, Port Stanley, Southampton, Stonecliff, Halifax, St. John, Sydney, Chatham, N.B., Charlottetown, Fort Vermilion, Barrie, Shelburne.

7. Hillsdown, Halkirk, Loveland, Hillview, Brandon, Morden, Aweme, Almasippi, Carberry, Treherne, Oakbank, North Gower, Dunstable, Bruederheim, Sion Cartwright, Rapid City, Gretna, London, Gull Lake, Lloydminster, Chaplin, Winnipeg, Minnedosa, Grand Forks, Rossland, Fort Vermilion, Crescent Lake.

8. Harmattan, Halkirk, Hillview, Morden, Aweme, Almasippi, Carberry, Aitkensville, Dauphin, Treherne, Oakbank, Kakabeka Falls, Schreiber, Sion, Cartwright, Rapid City, Yarbo, Chaplin, Minnedosa.

9. Halkirk, Pincher Creek, Haliburton, Schreiber, Point Clark, Orillia, Chicoutimi, Dunstable, Georgetown, Gravenhurst, Lindsay, Winnipeg, Rossland, Barrie.

10. Agincourt, Birnam, Brantford, Madoc Lucknow, East Toronto, Paris, Peterboro, Brome, Chicoutimi, Lake Edward, Shawinigan Falls, Pt. Lepreaux, St. Stephen, Dunstable, Princeton, Deer Park, Georgetown, Hamilton, London, Lindsay, Toronto, Father Point, Ottawa, Port Stanley, Loch Sloy, Cape Magdalen, Clarke City.

11. Hillsdown, Pakan, Lunnford, Waitefield, Stony Creek, Agincourt, Birnam, Aurora, Bloomfield, Brantford, Madoc, East Toronto, North Gower, Paris, Port Burwell, Peterboro, Chicoutimi, Okotoks, Princeton, Westport, Deer Park, Wooler, Georgetown, Hamilton, London, Lindsay, Rathmullen, Chaplin, Kingston, Toronto, Father Point, Port Stanley, St. John, Sydney, Chatham, N.B., Charlottetown, Grand Manan, Fort Vermilion.

12. Harmattan, Almasippi, Kakabeka Falls, Windsor, N.S., Sion, Rapid City, Westport, Kentville, Truro, Wolfville, Halifax, Yarmouth, Sydney.

13. Agincourt, Aurora, Montreal River, Matheson, East Toronto, Lake Talon, Port Dover, Point Riche, Westport, Georgetown, Haileybury, Kingston, Toronto, Quebec, Cape Magdalen, Fort Vermilion.

14. Lunnford, Waitefield, Hillview, Morden, Almasippi, Ninga, Stony Creek, Agincourt, Bruce Mines, Aurora, Brantford, Midland, Lucknow, East Toronto, Paris, Orillia, Chicoutimi, Lake Edward, Campsie, Bittern Lake, Sion, Cartwright, Rapid City, Princeton, Westport, Deer Park, Georgetown, Wesley, London, Haileybury, Lindsay, Yarbo, Muenster, Chaplin, Toronto, Southampton, Crescent Lake.

15. Threehills Creek, Macleod, Morden, Birnam, Bruce Mines, Madoc, Montague, Lucknow, Schreiber, Providence Bay, Peterboro, Renfrew, Brome, Chicoutimi, Cape Chatte, Chicoutimi, Pekisko, Mayeroft, Bardo, Sion, Westport, Haileybury, Kingston, Toronto, Port Stanley, Cape Magdalen, Clarke City.

16. Eckville, Hillsdown, Halkirk, Alix, Pincher Creek, Red Deer, Pakan, Loveland, Lunnford, Waitefield, Threehills Creek, Agincourt, Birnam, Lucknow, East Toronto, Haliburton, Owen Sound, Paris, Point Clark, Brome, Chicoutimi, D'Israeli, Campsie, Dunstable, Lacombe, Caldwell, Sion, Westport, Emsdale, Georgetown, Lindsay, Montreal, Kingston, Toronto, Quebec, Father Point, Port Stanley, Stonecliff, Loch Sloy, Delia, Clarke City.

17. Harmattan, Pincher Creek, Threehills Creek, Peterboro, Brome, Lake Edward, Sherbrooke, Campsie, Rapid City, Westport, Deer Park, Emsdale, Gravenhurst, Lindsay, Gull Lake, Glenbryan, Montreal, Kingston, Loch Sloy,

18. Pincher Creek, Aitkinsville, Providence Bay, Chicoutimi, Yarbo, Crescent Lake.

19. Pincher Creek, Hillview, Almasippi, Carberry, Dauphin, Agincourt, Birnam, Bruce Mines, Aurora, Madoc, Matheson, Midland, Lucknow, Haliburton, Kakabeka Falls, Lake Talon, Peterboro, Port Dover, Uplands, Pt. Lepreaux, Wooler, Emsdale, Georgetown, Wesley, Dutton, Gravenhurst, Haileybury, Lindsay, Lost River, Chaplin, Kingston, Toronto, Port Arthur, Port Stanley, Stonecliff, Crescent Lake, Barrie,

20. Pincher Creek, Matheson, Sion, Westport, Port Stanley, Chilcotin, Clarke City,

21. Hillsdown, Alix, Threehills Creek, Macleod, Montreal River, Montague, Lake Talon, Uplands, Brome, Chicoutimi, Lake Edward, Shawinigan Falls, Windsor, N.S., Dunstable, Sion, Westport, Wolfville, Chaplin, Quebec, Ottawa, Alkali Lake, Summerland, Fort St. James, Chilcotin, Revelstoke,

22. Harmattan, Blairmore, Pincher Creek, Red Deer, Loveland, Macleod, Chicoutimi, Campsie, Lacombe, Sion, Kentville, Truro, Wolfville, Glenbryan, Chaplin, Quebec, Halifax, St. John, Chatham, N.B., Loch Sloy, Delia,

23. Point Clark, Chicoutimi, Fredericton, Montreal, St. John, Charlottetown, Loch Sloy,

24. Bruce Mines, Haliburton, Lake Talon, Providence Bay, Chicoutimi, Moncton, Sion, Emsdale, Fort Vermilion,

25. Loveland, Lunnford, Waitefield, Wetaskiwin, Chicoutimi, Campsie, Okotoks, Dunstable, Lacombe, Bardo, Bittern Lake, Sion, Kentville, Kingston, Halifax, Fort Vermilion,

26. Harmattan, Waitefield, Threehills Creek, Macleod, Aweme, Okotoks, Mayeroft, Lloydminster, Delia,

27. Pincher Creek, Waitefield, Wetaskiwin, Morden, Aweme, Almasippi, Oakbank, Campsie, Dunstable, Sion, Rapid City, Westport, Chaplin,

28. Pakan, Loveland, Waitefield, Ninga, Chicoutimi, Campsie, Dunstable, Sion, Westport, Alkali Lake, Revelstoke,

29. Hillsdown, Red Deer, Loveland, Waitefield, Threehills Creek, Wetaskiwin, Hillview, Almasippi, Oakbank, Brantford, Paris, Okotoks, Bittern Lake, Sion, Cartwright, Rapid City, Westport, London, Ottawa,

30. Pincher Creek, Hillview, Oakbank, Agincourt, Peterboro, Renfrew, Sion, Deer Park, Georgetown, Fredericton, Haileybury, Yarbo, Chaplin, Toronto, Quebec, Chatham, N.B., Peace River Crossing, Fort Vermilion, Crescent Lake,

31. Hillsdown, Pincher Creek, Waitefield, Threehills Creek, Bruce Mines, Kakabeka, Schreiber, Renfrew, Pt. Lepreaux, Campsie, Sion, Westport, Fredericton, St. John, Charlottetown, Grand Manan, Fort St. James, Nicola Lake, Okanagan Mission, Princeton, Fort Vermilion,

FORECASTS FOR JULY, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1235. These were divided as follows:—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per centage.
Alberta	76	64	6	6	88·2
Saskatchewan	76	66	5	5	90·1
Manitoba	79	71	3	5	91·8
Lake Superior	119	99	16	4	89·9
Lower Lake Region	119	97	15	7	87·8
Georgian Bay	119	98	14	7	88·2
Ottawa Valley	96	82	8	6	89·6
Upper St. Lawrence	95	84	7	4	92·1
Lower St. Lawrence	103	88	6	9	88·3
Gulf	107	85	10	12	84·1
Maritime Provinces West	123	96	18	9	85·4
Maritime Provinces East	123	97	15	11	85·0
Total	1235	1025	123	85	88·1

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.
August 26, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. AUGUST, 1911. No. 8.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

Showers occurred frequently during the first and last weeks in southern British Columbia. Temperatures were a little higher than usual in the southwestern portion of that province, but elsewhere were a little lower than the average, especially in the Cariboo district, where night temperatures fell below 40° on 8 days.

The month of August was remarkable for the amount of precipitation in the western provinces. Rain or hail was recorded at many places on 16 days, while a few observers reported rain falling continuously to a depth of 3 inches, a very rare occurrence in western Canada. The weather was about 4° cooler than is usual for August, while frosts occurred in many districts during the last week.

In eastern Manitoba and in Ontario weather conditions did not differ very much from normal, but in Quebec mean temperatures were about 3° higher than usual, while the rainfall was deficient.

In northern New Brunswick the rainfall was locally heavy, but elsewhere in the Maritime Provinces there was a general deficiency of precipitation. The month was warmer than usual, especially the first week, when at many places temperatures of 80° to 85° were recorded each day.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for August exceeded the normal throughout the greater part of Canada, with the greatest departures over the western provinces, where differences were between 0·04 and 0·11 of an inch. In Ontario and Quebec the normal was just reached in a few localities, but generally the value was slightly in excess.

HIGH AREAS.

Five areas of high pressure were sufficiently well marked to allow of their paths being traced. Two first appeared in the vicinity of the Yukon Territory, one in northern British Columbia, one in the North Pacific States and one passed into the Maritime Provinces from Labrador. The course of four areas was over the Great Lakes, thence to the Atlantic seaboard. The system which appeared in northern British Columbia on the 24th was the most pronounced of the series, and as it passed over Ontario between the 29th and the 30th it brought the first light frosts of the season in a few northern parts of the province.

LOW AREAS.

Nine areas of low pressure were sufficiently well defined to allow of their paths being traced while there were one or two minor depressions which could not be tracked with any degree of certainty.

Two areas first appeared in southern British Columbia, two in the west Pacific States, two in the south Pacific States, one in the Province of Quebec, one in the State of Maine and one off the South Carolina coast.

The areas which appeared in the State of Maine and in Quebec, respectively, developed with remarkable rapidity, causing stormy conditions in the Gulf of the St. Lawrence and in the Maritime Provinces. The area which was first shown off the Carolina coast and which was apparently of tropical origin, moved a little inland with diminished intensity, but subsequently, between the 31st of the month and the 1st of September, traversed southern Nova Scotia and Newfoundland while quickly re-developing, and caused heavy weather in the Gulf of the St. Lawrence and over Newfoundland. The remaining six areas in nearly all instances passed either over the western provinces or far to the northward of Ontario and Quebec, and were chiefly noticeable for their accompanying frequent and often heavy rainfalls from the Rocky Mountains to Manitoba.

TEMPERATURE.

In the extreme southwestern portion of the mainland of British Columbia and on Vancouver Island the mean temperature of the month was either normal or a little above, but over the remainder of the province was from 1° to 2° below. Throughout the Prairie Provinces the month was cooler than usual, mean temperatures falling from 4° to 5° below normal in Alberta and Saskatchewan and from 2° to 3° below in western Manitoba; in the eastern portion of the latter province, however, conditions were nearly average.

In the Lake Superior districts of Ontario the differences from normal were very small, but over the remainder of the province there was an excess over normal mean of about 2°.

The normal mean temperature of August was exceeded by about 3° in Quebec and Newfoundland, and by from 1° to 2° in the Maritime Provinces.

The highest and lowest temperatures recorded in each Province during the month of August, 1911, were:

	HIGHEST.	LOWEST.
British Columbia	94° at Grand Forks and Greenwood on the 18th, and at Hedley (Nickel Plate) on the 8th and 23rd,	30° at Cranbrook on 14th and 19th.
Alberta	92° at Medicine Hat on the 19th	26° at Gilt Edge on the 27th.
Saskatchewan	94 at Broadview on the 14th	26° at Grenfell & Waseca on the 27th.
Manitoba	94° at Aweme on the 13th and at Moose Horn Bay on the 14th	31° at Aweme on the 28th.
Ontario	97° at Lorne Park on the 7th	25° at Uplands on the 30th.
Quebec	94° at Ste. Anne de Bellevue on the 1st and at Shawinigan Falls on the 6th	33° at Clarke City on the 19th.
New Brunswick	92° at Chatham on the 4th	39° at Moncton on the 30th.
Nova Scotia	89° at Wolfville on the 10th	38° at Antigonish on the 31st.
P. E. Island	90 at Charlottetown on the 5th	44° at Charlottetown on the 31st.

PRECIPITATION.

The precipitation recorded during the month of August was in excess of average in southern British Columbia, the western provinces, the southern counties of the peninsula of Ontario and New Brunswick. Less than the normal amount was reported from the greater part of Ontario, Quebec, Nova Scotia and Prince Edward Island. Exceptionally heavy rain-falls occurred locally in Alberta and Manitoba during the first week.

WINDS, AUGUST, 1911.

PROVINCES AND STATIONS	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of days with Gales	Number of days of Strong Winds	Number of days of Fresh Winds.	General Direction.
British Columbia.							
Victoria	6117	372	23		2	11	S.W.
Point Garry	6243	373	21	...	2	19	E.
Triangle Island	3762	294	18			....	S.W
Alberta.							
Banff (Sulphur Mt.)	1952	895	61	8	7	7	W.
Edmonton	3241	257	15			4	E.
Calgary	4584	131	31		3	5	W.
Saskatchewan.							
Prince Albert	5233	273	21		1	2	W.
Swift Current	5171	389	24		2	12	S., S.W.
Qu'Appelle	5152	295	21		1	11	W.
Manitoba.							
Winnipeg	6624	407	26		6	12	S.
Ontario.							
Port Arthur	6186	361	20		1	14	N.W.
Parry Sound	4337	249	22		1	8	S.S.W.
Southampton	4719	366	26		2	6	S.S.W.
Woodstock	4589	360	20		2	6	N.W.
Guelph	5540	364					N.W.
Toronto	6615	451	29		1	13	N., N.W.
Quebec.							
Quebec	8251	419	41	1	13	11	N.E.
Father Point	8982	681	40	7	12	4	W.
Maritime Provinces.							
Fredericton	5002	379	24		3	9	W.,
St. John	6479	539	38	1	8	3	S.W.
Pt. Lepreaux	7446	575	40	4	7	7	W.
Halifax	6715	518	42	2	5	10	W.
Sable Island	9987	743			...		S.W.
Flat Point	9170	660	44	3	11	12	S.S.W.
Charlottetown	5327	378	25		1	5	S.W.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA AUGUST, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers

Station.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more	No. of fair days.	No. of auroras.	No. of thunderstorms.	No. of fogs.
BRITISH COLUMBIA,				in.	in.	in.	in.																																	
Alberni (Beaver Creek)	49 15	124 49	300					61.0	+1.5	16	93.0	26	40.0	14, 17	33.2																		0.47	[illegible]	0.4[illegible]	2	2[illegible]			
Agassiz	49 14	121 31	52					61.9	+1.8	20	81.0	25	42.0	15	28.6																		2.07		1.[illegible]	5	2[illegible]	0	0	0
Atlin	59 35	133 38	2240	30.10	30.51	29.78	0.73	53.8		5	76.5	1	36.0	23, 31	20.1			5	1	10	0	0	0	21	3	1	3	24	62	5.6	16.0		1.69		0.48	11	20	1	0	
Barkerville	53 2	121 35	4180	30.02	30.26	29.84	0.42	50.2	−2.8	21	67.0	19	32.0	8	20.3		80	5	1	0	0	0	2	0	2	0	0	58	62	0.8	20.0	20 S.E.	2.84	0.24	1.12	12	19	0	0	0
Bella Coola	52 10	126 51	150					61.7	+1.4	13	88.0	5	40.0	26	30.8																		1.50	0.38	0.51	9	22	0	1	2
Chilcotin (Big Creek)	51 10	123 0	3100					57.0		8	80.0	18	35.0	8	27.6																		1.10		1.58	8	23	0	1	0
Cranbrook	49 30	115 50								3	81.0	12	30.0	11, 19																			1.84		1.07	7	24	0	0	0
Clayoquot	49 11	125 47	10					58.4	+1.0	12	80.0	26	45.0	17, 22	16.9																		1.[illegible]8	1.87	0.71	10	21	0	0	12
Cowichan (Tzouhalem)	48 25	123 42	170					62.6		11	82.5	26	43.0	16	23.1																		0.62		0.60	2	29	0	1	0
Chilliwack	49 10	121 57	21					62.5		9	86.0	20	42.0	16	22.3																		2.09		0.71	7	24	1	3	3
Enderby	50 32	119 7	1180					62.2		8	84.0	18	37.0	25	31.0																		1.75		0.94	6	25	0	2	0
Fort St. James (Stuart's Lake)	54 28	124 12	2280					54.0		18	73.5	27	29.0	23	27.1																		0.76	0.58	0.33	7	24	0	0	0
Fairview	49 11	119 36																																						
Fruitvale	49 9	117 31						58.5		2	88.0	31	32.0	22	35.8																		1.02		0.40	6	25	0	0	0
Glacier	51 14	117 29	4072					52.1		10	75.0	20	36.0	9, 23	23.2																		2.5[illegible]	0.03	0.61	8	23	0	0	0
Golden	51 16	116 55	2590					56.3		10	79.0	19	35.0	27	25.8																		1.28		0.50	5	26	0	1	0
Grand Forks	49 2	118 27						64.7		1	94.0	18	42.0	11, 27	33.7																		0.52		0.16	8	23	0	1	0
Greenwood	49 5	118 40						59.7		1	91.0	18	30.5	26	41.4																		1.56		0.60	9	22	0	0	0
Holberg	50 39	128 18						58.9		3	79.8	26	48.5	17	13.0																		2.83		1.00	5	26	0	0	0
Hedley	49 35	120 10						64.2		6	93.0	18	44.0	26	27.8																		1.64		0.47	11	20	0	0	0
Hedley (Nickel Plate)								46.4		8	69.0	26	30.0	8, 23	23.9																		2.10		0.50	8	23	0	0	0
Hope	49 23	121 25						64.5		2	84.5	26	50.0	23	20.6																		3.30		1.47	11	20	0	6	0
Ikeda Bay	52 17	131 7	5							4	75.0	5	54.0	7, 15																			0.50		0.28	3	28	0	0	0
Kamloops	50 41	120 30	1245	29.94	30.21	29.66	0.55	66.0	+2.4	19	89.4	13	43.0	9	26.8		64	6	3	1	1	1	3	2	6	27	9	9	62	4.4	13.0		1.02	0.01	0.70	4	27	0	0	0
Ladner	49 5	123 4						59.3	+0.5	11	78.0	26, 27	40.0	19	22.5																		0.60	0.52	0.60	1	30	0	0	0
Massett, Q.C.I.	53 58	132 9	30					59.8	+0.4	15	80.0	7	46.0	16, 18	14.9																		0.41	0.13	0.12	7	24	0	1	0
*a*Nanaimo	49 10	123 37	125																																					
Nicola Lake	50 9	120 30	2120					60.2	0.8	16	83.0	19	40.0	26, 27	23.4																		1.53	+0.61	0.50	6	25	0	1	0
North Nicomen	49 12	122 2	50					63.8	+0.5	19	[illegible]	22, 26	47.0	16	22.7																		2.11	0.58	0.[illegible]9	9	22	0	3	0
New Westminster	49 13	122 54	330					62.4	+0.9	21	82.5	22	47.2	21	20.0																		1.22	0.15	0.[illegible]8	7	24	1	2	1
Nelson	49 29	117 21	1760					63.6		10	86.0	18	43.0	23	25.0																		1.63		0.29	6	25	0	1	0
Needles	49 10	118 9						64.4		2	82.0	17	40.0	26	31.2																		1.40		0.70	4	27	0	0	0
Okanagan Mission (Kelowna)	49 52	119 29	1200					63.5	0.0	13	83.0	17	44.0	23	24.6																		1.16	0.11	0.[illegible]0	6	25	0	0	0
Princeton	49 29	120 29	1650					60.6	1.7	17	89.0	18	34.0	26	31.2																		1.31	0.54	0.61	8	23	0	0	0
Penticton	49 29	119 35						64.0		5	84.0	3	44.5	26	24.8																		1.26		0.38	9	22	0	0	0
Pemberton Hatchery	50 20	122 33						63.4		4	86.0	1	42.0	16, 25	26.0																		2.09		1.01	5	26	0	1	0
Prince Rupert	54 18	130 18	170	30.03	30.28	29.71	0.57	57.0		3	81.0	22	45.0	28	14.8		84	7	11	1	1	1	2	3	5	8	4	37	62	4.8	8.0		3.67		1.06	14	17	0	0	10
Quesnelle	52 59	122 30	1700					60.5	−2.1	16	86.0	18	37.0	9	30.5																		1.67	0.58	0.35	7	24	0	1	0
Revelstoke	51 0	118 6	1476					59.3	−1.9	11	86.0	18	36.0	7–8	29.9																		1.63	0.86	0.47	8	23	0	0	0
Rossland	49 5	117 48	3400					60.3		8	85.0	18	45.0	9, 10	21.7																		1.33		0.82	9	22	0	3	0
Ruskin (Stave Falls)	49 16	122 24	125					61.8	—	2	85.0	15, 27	45.0	11, 23	29.2																		2.76		1.36	4	27	0	0	3
Salmon Arm	50 42	119 35	1152					64.0		6	88.0	18	44.0	26, 27	28.6																		1.71		0.83	7	24	1	6	1
Salmon Arm (Ex. Farm)								62.8		1	89.0	18	44.0	23	32.6																		1.14		0.65	5	26	0	0	0
Steveston (Garry Point)	49 21	123 17						59.0	−0.6	16	77.0	23	40.0	16	19.5																		0.79	18	0.71	4	27	0	0	0
Swanson Bay	50 37	126 53						59.5		1	80.0	22	44.0	2	15.1																		3.28		1.25	8	23	0	0	0
Salt Spring Island	48 50	123 20																																						
Summerland	49 57	119 0	1100					65.6		5	88.0	18	47.0	23	23.7																		1.26		0.93	2	29	0	1	0
Sooke	48 11	123 11	25					56.7		1	77.0	6–7	39.0	15	21.4																		0.70		0.30	3	28	0	0	16
Stewart	56 1	130 1	215					59.6	—	1	84.0	3–7	41.0	19, 20	26.5																		3.67		0.82	11	20	0	0	0
Tobacco Plains (Elko)	49 1	115 5	2681					62.6	−0.9	16	87.1	31	38.0	26, 28	28.7																		1.51	+0.26	0.71	6	25	0	2	0
Triangle Island	50 52	129 5	680	30.16	30.36	29.95	0.41	49.4	—	1	55.0	7–16	44.0	15	5.1		96	10	29	2	2	3	0	7	32	16	0	0	62	5.6	12.0		3.71	—	2.21	25	6	0	0	28
*a*Tranquille	50 41	120 29		28.75	29.06	28.54	0.52	65.8	—	3	91.0	14	45.0	23	26.7		72	5	3	8	3	1	7	3	5	4	31	0	62				1.57		1.05	6	25	0	1	0
Vernon (Coldstream Ranch)	50 14	119 15	1557					61.7	−0.7	18	91.0	18	44.0	23	28.1																		1.42	+0.38	1.00	5	26	0	0	0
Victoria	48 24	123 19	85	30.03	30.21	29.86	0.35	60.1	−0.1	19	79.5	23	46.2	16	18.3		71	4	3	2	0	0	0	16	32	4	1	7	62	8.4	21.0	25 S.W.	0.68	+0.07	0.47	3	28	0	3	0
Vancouver	49 17	123 5	136	30.03	30.23	29.87	0.36	62.0	+0.6	11	79.9	22	47.9	16	18.0		77	4	3	5	2	5	18	0	1	4	10	17	62	3.0	10.0	22 N.	1.23	0.18	0.68	7	24	0	0	0
Winter Harbour	50 32	128 3						57.9	+0.1	17	74.0	12, 29	45.0	12, 23	16.2																							6	0	0
Wilmer	50 34	116 11						58.1*	—	2	84.0	10	35.0	3	30.6																		1.67		0.06	3	28	0	2	1

YUKON :—											
Carcross	60 11	131 31	2171						5 85 0	31 0	23
Dawson	64 1	139 20	1200	30·19	30·57	29·85	0·72	53·3	1 5 10 81 0	2 31 0	19 28 7
White Horse	60 15	135 0	2075								
ALBERTA—											
Athabasca Landing	54 13	113 17	1650					53·9	8 78 0	18 29 0	27 25 6
Alix	52 21	113 10						51·3	6 77 0	18 34 0	27 21 5
Banff	51 10	115 31	4542	30·03	30·37	29·78	0·59	51 6	3 1 16 76·2	18 31·2	23 25 0
Blairmore	49 40	114 30	4225					53 1	1 78 3 17	31 28·7	21 28 8
Calgary	51 2	114 2	3389	29·99	30·32	29·62	0·70	51·3	1 8 27 78·0	12 33 0	27 22 6
Cardston	49 12	113 18						51·7	7 86 0	17 30 0	21 30 7
Delia								51 7	1 80 0	18 32 5	27 21 1
Didsbury	51 40	114 8	3300					55 1	9 78 0 18	30 31 0	9 27 23 0
a Dunvegan	55 56	118 35	1305								
Daysland	55 52	112 17									
Edmonton	53 33	113 30	2158	30·00	30·42	29·67	0·75	56 7	2 6 23 82 0	18 33 0	27 25 2
Eckville	52 23	114 22									
Endiang	52 0	112 0	2795					51 1	1 79 0	19 31 7	26 22 8
Fort Vermilion	58 27	116 3						53 1	7 77 5	1 31 5	8 31 27 1
Gleichen	50 59	112 54	2962					54 1	5 0 10 77 0	19 30 0	27 22 8
Gilt Edge	52 50	110 43						53 6	2 82 5	18 26 2	27 27 1
Hillsdown	52 11	113 29	2806					54 3	7 78 0	19 31 0	27 22 5
High River	50 35	113 53	3391					54 0	8 79 0 18	19 33 5	10 26 0
Harmattan	51 45	114 23	3500					50 7	1 77 0	19 28 0	9 25 9
Halkirk, (Emsburg)	52 17	112 10						54·2	2 79 0	18 32 0	27 21 2
Lethbridge	49 42	112 51	2961					59 0	1 5 10 85 6	20 31 2	27 23 4
Lethbridge (Exp. Farm)	49 43	112 51						58 0	1 85 9	19 29 1	27 25 0
Lacombe	52 58	113 44	2783					53 4	1 80 0	18 29 5	27 26 1
Lawrence	50 16	113 26						52 1	1 83 0	12 30 0	21 31 1
Lunnford	54 33	114 19						53 3	2 79 0	18 28 2	27 6 8
Loveland	52 30	111 59						55 8	2 83 0	18 28 0	27 29 0
Medicine Hat	50 1	110 37	2161	29·94	30·40	29·63	0·77	62 0	1 2 27 92 0	19 31 0	27 2 9
Macleod	49 44	113 24	3128					57 2	5 7 14 82 0	18 35 0	22 23 2
Peace River Crossing	56 15	117 15						54 0	1 77 0	18 31 0	9 25 1
Pembina	54 12	114 0						53 5	1 80 0	19 32 0 23	27 21 5
Pakan (Victoria)	54 0	112 31						54 0	7 77 6	18 29 0	27 26 7
Pincher Creek	49 30	114 4	3750					55 6	1 2 13 77 0	18 33 0	22 21 6
Red Deer	52 16	113 49						55 3	12 79 0	18 32 0	27 21 2
Spirit River	55 40	118 47						54 3	2 72 0 18	21 27 0	11 25 6
Sundial	50 6	112 34						57 1	1 83 0	19 29 0	26 25 1
Threehills Creek	51 30	113 11						54 1	3 0 10 77 0 18	19 34 5 27	28 23 5
Wetaskiwin	52 58	113 23	2480					54 3	2 7 10 78 0	19 32 0	27 20 4
Waitefield	53 29	114 38	2000					54 3	6 84 0	18 28 5	27 25 7
SASKATCHEWAN—											
Battleford	52 41	108 20	1620	29·90	30·32	29·72	0·60	57 2	1 7 21 85 0	16 32 0	27 21 7
Broadview	50 23	102 33	1960					59 7	5 91 0	11 28 0	28 32 3
Browndee	50 45	106 0						58 1	2 87 0	13 35 0	23 27 5
Chaplin	50 26	106 39	2202					57 7	1 8 23 86 0	19 30 0	27 27 3
Cannington Manor	49 43	102 2	2064					57 9	1 0 13 83 0	20 31 0	28 23 8
Crescent Lake	50 59	102 25	1658					56 6	7 83 2	11 29 2	28 26 8
Cumberland House	53 56	102 16						62 2	1 84 0	2 33 0	31 26 0
Duck Lake	52 54	106 20									
Estevan	49 42	103 1	1858					60 0	3 0 10 87 0	13 33 0	26 22 2
East End	49 31	108 49									
File Hills	51 1	103 31									
Grenfell (Brownhill)	50 25	102 53	1967					57 4	3 3 10 86 0	19 26	27 7 2
Glenbryan (Larchmount)	49 54	107 27						57 5	1 89 0	20 27 2	22 30 3
Humboldt	52 42	105 9						57 1	5 85 0	14 32 0	28 26 6
Hubbard (Drumague)	51 5	103 24									
Indian Head	50 28	103 40	1924					58 4	1 0 21 86 0	13 31	25 23 3
Kamsack	51 30	101 52									
Kelvinhurst								59 0	1 90 0	19 27 0	27 32 0
Lloydminster	53 18	110 0						53 4	6 84 0	19 26 3	27 26 1
Luseland	52 5	109 24						51 6	1 83 0	19 29 0	27 27 3
Lost River								56 2	1 83 0	20 31 0	29 27 2
Moose Jaw	50 21	105 35	1750	29·94	30·26	29·55	0·71	59 4	1 7 16 88 0	13 32 0	28 28 3
Moosomin	50 0	101 37	1881					56 4	11 86 0	13 31 0	28 25 0
Muenster (St. Peter's Monastery)	52 0	105 0	1870					56 6	5 84 0 13	19 33 0	26 21 8
Melfort	52 47	104 30						56 6	2 82 5	19 31	27 26 2
Maple Creek (Divide)	49 55	109 28						54 6	2 82 6	19 26 2	22 26 8
Onion Lake	53 52	110 59						52 2	4 76 0 1	22 28	28 33 6
Oliver	51 16	108 40						56 2	2 86 0	19 29	27 26 2
Pense (Gatesgarth)	50 20	105 0	1870					57 2	13 84 0 14	20 30	28 30 3
Prince Albert	53 10	106 0	1432	29·96	30·21	29·70	0·51	57 7	1 7 26 85 0	19 33 4	27 26 2
Prince (Meota)	54 0	108 20	1700					54 5	5 83 0	13 28	27 28 3
Qu'Appelle	50 30	103 47	2115	29·97	30·31	29·61	0·70	57 0	5 4 27 84 0	13 30	28 23 4

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. AUGUST, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.	Total No. of observations.	Velocity of wind: Maximum per hour.	Velocity: [illegible]	Prevailing direction.	Precipitation: Amount.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SASKATCHEWAN—*Con.*	° ′	° ′		in.	in.	in.	in.																																	
Regina	50 27	104 37	1885					57.7	1.1	27	83.0	13, 11	32.0	28	26.5																		[illegible]		1.21		9			[illegible]
Rathmullen	51 20	108 57						56.1		2	86.0	20	29.7	27	25.6																		2.52		0.[illegible]	1	21	0	[illegible]	0
Rosthern	52 40	106 20	1657					56.0		1	84.8	20	32.2	27	25.6																		1.79		0.98	7	21	0	1	0
Swift Current	50 20	107 45	2139	30.01	30.38	29.70	0.68	58.7	5.3	25	86.0	19	33.0	22	25.0		75			8	1	6	5	13	11	18	2[illegible]	2	93				2.38	0.19	0.44	12	19	[illegible]	4	1
Saskatoon	52 15	106 30	1571					[illegible]8.2	2.0	11	85.[illegible]	14	33.8	28	25.1																		3.18	1.01	0.76	10	21	[illegible]	1	0
Strassburg	51	5 104 56						58.0		2	86.0	13	35.0	26	26.1																		2.51		0.6[illegible]	8	2[illegible]	0	0	[illegible]
Scott (Hearts Hill)	51 30	109 30																																						
Scott (Ex. Farm)								55.1		1	84.0	19	29.5	27	26.3																		2.71		0.76	13	18	[illegible]	1	0
Stanley Mission	55 27	104 37																																						
The Pas	53 49	101 15	860	29.96	30.26	29.67	0.59	57.6		2	81.0	19	31.0	25	21.6		81			3	2	4	3	5	0	3[illegible]	9	1	62				2.5[illegible]		[illegible]	8	2[illegible]	1	0	0
Waseca	53	6 109 29						53.2		1	79.0	12	26.0	27	25.9					0	2	2	3	1	2	15	6	0	31				0.80		0.21	[illegible]	29	2	0	0
Yorkton	51 11	102 29						57.2		3	85.0	11	31.0	26	25.6																		[illegible]		2.1[illegible]	8	[illegible]	0	0	[illegible]
Yarbo (Fairfield)	50 39	102 4						56.6		1	86.[illegible]	11	28.[illegible]	26	27.5					0	5	1	1	3	[illegible]	4	10	7	31				1.47		2.2	[illegible]	18	7	3	[illegible]
Yellow Grass	49 49	104 9						58.4		1	85.0	14, 19	30.0	28	2[illegible].1																		1.2[illegible]		0.7	[illegible]	2[illegible]	2	2	0
MANITOBA																																								
Almasippi	49 11	99 20						61.7		9	92.0	14	3[illegible].0	28	26.8																		2.[illegible]8		0.[illegible]	10	21	0	7	0
a Aweme (St. Alban's)	49 42	99 33	1180	28.78	29.07	28.[illegible]3	0.51	62.1	2.1	26	93.5	13	31.5	28	26.9																		1.1[illegible]	2.[illegible]	1.0[illegible]	[illegible]	16	8	[illegible]	0
Brandon	49 51	99 57	1176					60.1	2.4	23	87.7	13	32.0	28	21.7			[illegible]	2	1	10	5	9	0	11	11	18	2[illegible]	93	[illegible]		[illegible]	[illegible]	2.[illegible]	1.[illegible]	3	18	0	0	0
Berens River	52 18	97 23	710					61.9		5	82.0	15	38.0	30	19.5																		1.21		[illegible]	2	[illegible]	0	0	0
Birtle	50 25	101 1	1703																																					
Carberry	49 52	99 20	1258							7																							2.[illegible]8		[illegible]	9	22	[illegible]	3	[illegible]
Carman	49 31	98 0	872					60.2		8	88.0	15	39.0	28	31.5																		2.13		0.[illegible]8	11	20	[illegible]	0	0
Cypress River	49 33	99 3	1232					59.1		6	89.0	14	32.0	22, 28	27.0																		2.1[illegible]		0.6	12	19	0	[illegible]	0
Dauphin	51	8 100 2	957					60.5		1	84.0	14	31.0	26	24.6																		[illegible]	—	1.[illegible]	10	21	0	[illegible]	0
Hillview	49 55	100 33	1400					59.1	1.6	26	85.0	13, 20	31.0	28	21.9			1	1	17	16	2	7	7	20	13	11	0	93				6.82	1.[illegible]	1.[illegible]	11	2[illegible]	1	2	0
Minnedosa	50 15	99 50	1690	29.98	30.[illegible]0	29.[illegible]5	0.8[illegible]	58.7	2.6	28	85.[illegible]	13	32.0	28	25.0					2	3	1	5	0	0	4	7	13	62				[illegible]2	[illegible]	1.[illegible]	13	18	0	2	0
Morden	49 11	98 6	978					61.3		7	87.5	15	37.0	29	23.1					13	3	2	2	1	12	8	8	13	62				[illegible]		0.[illegible]	0	21	0	[illegible]	0
Moose Horn Bay (Atkinson)	51 15	99 23						59.8		2	93.5	14	33.7	26	21.9					12	7	2	6	7	1	7	8	18	62				1.6[illegible]		1.2[illegible]	16	[illegible]11	2	0	
Ninga	49 14	99 51	1649					59.1		[illegible]	88.0	13	35.0	28	23.[illegible]																		2.41		1.1[illegible]	7	21	1	1	0
Oakbank	49 57	96 42	800					59.8	1.0	16	83.5	11	37.5	29	20.0					6	0	2	0	3	2	7	11	0	31				2.18	0.6[illegible]	1.[illegible]	11	2[illegible]	0	1	0
Pipestone	49 31	100 58	1400					60.8	3.9	12	8[illegible].0	15	35.0	22	25.2																		[illegible]		1.[illegible]	1	27	[illegible]	[illegible]	0
Portage la Prairie	49 57	98 17	830					61.4	2.2	20	86.0	13	37.0	25, 27	22.8																		2.[illegible]8	0.18	0.82	8	2[illegible]	0	0	0
Portage la Prairie (2)	49 56	98 17						61.4		5	88.0	14	38.5	26	22.0																		[illegible]		0.[illegible]	0	22	0	0	[illegible]
*Pierson	49 11	101 5	1531					59.0		6	88.0	14	33.0	22, 28	24.1																		[illegible]8		2.[illegible]	8	23	0	0	0
Stony Mountain	50 10	97 14	803					61.2		31	89.0	14	36.0	26, 29	26.5					11	9	0	0	14	7	6	10	0	60	11		[illegible]				[illegible]	28	0	0	0
Swan River	52	6 101 15	1112					58.7		4	85.0	12, 19	33.0	25	28.0																		5.68		1.[illegible]	11	20	0	0	0
Treherne	49 36	98 40	1212					61.1		16	88.0	13	36.0	28	21.7																		3.74		1.25	12	19	2	5	0
Virden	49 51	100 55	1441					61.1		8	88.0	14	31.0	28	27.0																		2.80		1.[illegible]0	5	26	0	0	0
Winnipeg	49 53	97 7	760	29.98	30.[illegible]0	29.[illegible]	0.[illegible]8	63.0	0.1	38	88.5	14	39.8	26	22.8					12	3	1	11	9	6	9	9	2	62				2.31	0.01	0.83	12	19	1	2	0
ONTARIO																																								
Alton	43 51	80 5	1250					63.9		25	92.2	1	33.0	30	30.4			2	0	10	2	13	2	19	4	10	3	0	93	11			1.07		2.00	9	2[illegible]	0	8	0
Aurora	43 57	79 21	886					6[illegible].2		4	90.5	5	36.5	30	25.6																		1.31	0.85	0.16	12	19	0	2	0
Agincourt	43 47	79 16	590					69.5		15	91.2	6	4[illegible].3	[illegible]0	23.6					6	1	31	3	1	10	26	15	0	93				1.5[illegible]	0.11	[illegible]10	[illegible]	21	1	6	1
Barrie	44 23	79 41	820					67.0		33	86.0	1	41.9	3[illegible]	20.0			4	0	5	2	8	8	13	3[illegible]	5	27	22	93	1			3.81	1.28	2.20	10	21	1	6	0
Beatrice	45	8 79 20	800					61.9		36	90.0	1	31.0	30	26.5			4	2	7	0	1	9	1	6	2	13	51	93				1.33	1.54	0.64	6	25	0	3	0
Bruce Mines	46 18	83 55	595					64.0		3	83.0	5, 11	37.0	24	21.7																		2.67	0.02	0.77	9	22	2	3	2
Birnam	43	2 81 55	600					68.2		29	89.0	2, 8	40.0	30	19.8					11	7	15	8	8	2	1	4	6	62				2.11	0.25	0.96	6	25	1	4	0
Brantford	43 10	80 21	750					69.0		27	91.0	10	44.0	29	23.3																		1.69	[illegible]0.41	0.79	6	25	0	5	0
Bloomfield	43 59	77 21	260					69.1		11	90.0	2	43.0	30	22.0																		0.97		0.29	7	24	0	0	0
Bancroft	45	1 77 50						65.0		17	91.0	7	32.0	30	29.1																		1.09	2.31	0.40	3	28	0	1	0
Copper Cliff	46 30	80 59						65.2		4	9[illegible].0	7	39.0	30	23.4																		1.14		1.13	4	27	0	0	0
Clinton	43 32	81 37						66.9		9	91.0	2	43.0	20	20.6					10	1	6	6	12	6	3	13	2	62				2.94		1.25	9	22	1	2	0
Coldwater	44 38	79 40	600																																					
Coltam	42	7 82 45	606					69.2	+0.3	24	91.0	10	39.0	29	28.0					7	1	7	15	20	5	7	0	0	62				1.96	−0.56	0.55	8	23	0	0	2
Chatham	42 23	82 12	595					70.1		26	91.0	10	41.0	30	21.7																		1.61	0.49	0.50	6	25	0	0	0
Cochrane	49	2 81 0	930																																					
Collingwood	44 31	80 2						66.6		16	95.0	2	43.0	28	26.3																		3.00	0.10	1.00	4	27	0	0	0

Station	Lat.	Long.	Elev.	Press. mean	Press. max	Press. min	Press. range	Temp. mean	Diff.	Col. A	Highest	Col. B	Lowest	Col. C	Col. D	Col. E
ONTARIO—*Concluded.*																
Elora	43 41	80 24	1271					67.2		14	92.0	1	39.0		30	27.1
Gravenhurst	44 51	79 20						65.4		40	88.0	7	31.0		30	25.3
Guelph	43 33	80 16	1050					67.8	+3.5	24	89.0	1-5	41.0	29	31	23.0
*a*Grimsby	43 13	79 36						70.1	—	2	89.0	6-23	48.0		31	20.4
Haileybury	47 29	79 39	687	29.97	30.42	29.56	0.86	65.0		20	90.8	1	36.9		30	21.1
Hamilton	43 16	79 51	303					69.8		37	92.0	5-7	48.0		31	19.7
Haliburton	45 1	79 8	1050					65.6		24	96.0	5	31.0		30	29.7
Huntsville	45 19	79 8						65.6	—	4	88.0	7	35.0		30	24.6
Kenora	49 48	94 32	1102					61.1		10	89.0	11	37.0		25	27.3
Kakabeka Falls	48 29	89 26	912					59.2	—	3	81.0	13 14	32.0		30	27.1
Kingston	44 13	76 29	285	30.00	30.36	29.67	0.69	69.8	+3.3	37	86.4	1	46.0		30	11.5
Kinmount	44 45	78 38	920					61.5		12	87.0	1	33.0		23	27.3
Lucknow	43 56	81 30	908					64.8		25	89.6	1	37.4		30	25.2
Lake Talon	46 15	78 48						65.6		17	91.5	1	30.0		30	26.0
London	42 59	81 13	808	30.01	30.31	29.76	0.55	68.7		27	94.5	10	39.0		30	25.3
Lakeside Home	43 40	79 24						67.4	—	7	88.0	8	49.0	8	29	16.5
Lorne Park	43 32	79 37						71.2		3	97.0	7	44.0		29	28.7
Lindsay	44 20	78 45	872					68.7		32	92.0	6	44.9		30	26.0
Lakefield	44 25	78 15	850							28	89.0	18	42.0		30	
*Midland	44 44	79 53	750					75.2		4	88.0	7	55.0	17	25	
Madoc	44 30	77 29	575					68.2		7	93.0	1	39.0		30	25.6
Montagne	44 56	75 57						69.3	—	2	95.0	1	38.5		30	25.6
Montreal River	47 8	79 29						62.4	—	1	93.0	1	33.0		30	27.5
Matheson	48 29	80 26						59.9	—	1	91.0	1	30.0		30	28.7
*North Bruce	44 23	81 25						64.9		23	92.0	7	43.0		29	—
North Gower	45 8	75 43						—		9	—		38.0		30	—
Owen Sound	44 34	80 55	597						—	33	—		39.0		31	—
Orillia	44 37	79 21	775													
Ottawa	45 26	75 42	294	29.99	30.50	29.68	0.82	68.8	+2.	27	90.0	1-26	43.0		30	20.5
Port Arthur	48 27	89 12	644	29.98	30.31	29.50	0.81	60.0	+0.1	31	81.0	16	35.0		29	21.3
Port Stanley	42 40	81 13	592	30.00	30.29	29.77	0.52	66.8	+0.1	37	86.2	8	43.4		20	17.8
Port Dover	42 27	80 12	635					67.8		36	86.5	7	45.1		[illegible]	17.9
Port Burwell	42 39	80 55	592					67.2	—	8	85.0	1	45.0		30	16.7
Parry Sound	45 19	80 0	635	30.01	30.39	29.74	0.65	67.0	+2.8	36	90.0	1 7	38.0		30	24.1
Point Clark	44 5	81 44	595					—		39	—	—			—	—
Pelee Island	41 50	82 35	585					77.0		27	52.0	2	60.0		22	14.1
Paris	43 12	80 25	840					69.7		22	94.0	10	43.0		30	22.7
Peterboro	44 17	78 19	722					67.7		41	87.0	7	39.0		30	23.4
Porcupine	48 29	81 18														
Providence Bay	45 40	82 11								1	83.0	1	30.0	13	19	
Rouville	45 15	78 57	1038					64.2		1	86.0	6	31.0		29	25.6
Renfrew	45 26	76 30	416					68.3		22	93.7	1	35.0		30	26.1
St. Catharines	43 9	79 17	347													
Stonecliffe (Rockliffe)	46 9	78 6	557	29.98	30.43	29.67	0.76	65.3	+2.6	31	91.0	1	38.0	29	30	25.8
Southampton	44 30	81 21	656	30.04	30.39	29.76	0.63	65.8	+0.9	35	91.6	1	40.3		30	18.6
*Sarnia	42 59	82 21	586													
Stratford	43 23	81 0	1191													
Stony Creek	43 13	79 15	292					69.4		27	91.0	5	46.0		31	21.3
Schreiber	48 50	87 15						56.5	—	8	76.6	16	29.8		30	19.5
Shelburne	44 5	80 17						63.4		1	85.0	2	35.0		30	21.9
Toronto	43 40	79 24	350	30.00	30.31	29.73	0.61	69.3	+2.1	70	89.8	8	47.2		30	20.2
Uxbridge	44 5	79 8	886					66.3		7	89.0	1 5	38.0		30	26.9
Uplands	45 18	79 25						62.3		25	86.0	5 7	24.7		30	29.5
Ursa	44 54	78 1[illegible]														
White River	48 35	85 16	1252	29.96	30.35	29.59	0.76	56.8	0.1	22	82.0	14	31.0		30	23.8
Woodstock	43 8	80 47	980	30.00	30.31	29.74	0.57	66.8		39	90.0	10	44.0		29	21.9
Welland	42 59	79 17	577					69.6		23	92.0	1	48.0	30	31	19.3
Windsor	42 20	83 4	625					71.1		37	90.0	11	48.0		31	16.6
Wallaceburg	42 35	82 21						68.8		6	93.0	7	42.0		28	23.9
QUEBEC—																
Abitibi	48 43	79 22						65.5		15	90.0	7	45.0		30	
*Anticosti, E. Point	49 6	61 42	30					58.5	0.3	28	71.0	8	48.0		18	
*Anticosti, W. Point	49 52	64 32	30					58.2	+0.3	25	77.0	8	46.0		31	
Brome	45 10	72 36	675					65.0		31	88.0	7	36.0		30	21.9
*Bicquet	48 25	68 53						53.0		30	75.0	3	47.0		19	
Clarke City	50 0	66 25						59.2	—	5	86.0	1	33.0		19	21.1
*Cape Chatte	49 6	66 45						60.0		29	71.0	9	52.0		15	
*Cape Magdalen	49 16	65 20	[illegible]					60.8		30	81.0	9	49.0		30	
Chicoutimi	48 25	71 5	150					65.9		26	90.6	1	38.7		31	21.2
Chicoutimi West								61.5		1	86.0	5 8	35.0		31	21.6
Cap Rouge	46 46	71 18						65.9		1	88.0	4 9	42.2		30	21.1
Disraeli	45 55	71 21						65.2		2	93.0	5	40.0		26	28.0
Father Point	48 31	68 19	20	29.93	30.43	29.56	0.87	58.1	+2.8	34	80.7	9	40.0		31	16.2

Station	c1	c2	c3	w1	w2	w3	w4	w5	w6	w7	w8	w9	w10	Vel.	Force	Dir.	Precip.	Diff.	Max.	Date	d1	d2	d3
Elora																	5.07	+1.95	2.87	12 19	0	0	0
Gravenhurst		3	1	11	0	5	13	13	7	7	16	18	93	11	IV	8 SW	3.01	0.29	2.11	7 21	3	5	0
Guelph																	3.63	1.18	1.18	11 20	0	0	0
*a*Grimsby																	2.20		0.48	9 22	0	0	0
Haileybury				6	2	2	1	9	10	15	8	9	62	1	IV	--	3.98	1.11	1.36	16 15	9	7	0
Hamilton																	1.35	0.78	0.67	3 28	0	1	0
Haliburton																	1.92	2.12	2.87	7 21	1	7	0
Huntsville																					0	0	0
Kenora																	1.35		1.01	12 19	5	3	5
Kakabeka Falls																	2.97		0.95	9 22	2	3	1
Kingston				0	6	2	10	1	21	6	12	1	62				3.00	0.66	1.07	12 19	0	1	0
Kinmount																	4.10	1.57	1.25	7 21	0	0	0
Lucknow																	2.19	0.16	1.01	8 23	3	6	0
Lake Talon																	1.58	1.55	0.83	6 25	2	6	2
London		4	1	0	10	3	25	0	3	3	19	0	93				3.13	0.90	1.10	6 25	0	4	0
Lakeside Home																					0	0	0
Lorne Park																	1.31		0.50	8 23	0	0	0
Lindsay		4	1	6	3	1	2	12	16	11	17	22	93	1	III		1.11	1.39	0.70	7 21	0	3	1
Lakefield																	1.34			9 22	[illegible]	[illegible]	[illegible]
*Midland																	2.00			6 25	0	1	0
Madoc																	1.49		0.50	12 9	1	10	0
Montagne																	1.76		0.40	8 23	0	0	0
Montreal River																	1.19		0.31	10 21	0	1	0
Matheson				0	1	2	4	1	10	21	8	10	60				4.59		1.19	15 16	1	2	0
*North Bruce				12	0	6	1	29	15	23	7	0	93				1.09	1.18	1.02	6 25	0	0	0
North Gower																					0	2	0
Owen Sound				15	1	0	1	37	4	0	4	0	62								0	0	0
Orillia																							
Ottawa				0	1	4	3	9	13	22	8	2	62				1.30	1.90	0.70	6 25	1	3	0
Port Arthur				3	6	10	5	3	5	6	21	3	62				2.96	0.07	1.05	7 21	1	0	1
Port Stanley				0	4	11	9	1	9	8	9	11	62				3.79	1.26	1.36	10 1	0	5	1
Port Dover				3	0	7	1	7	4	7	2	0	31				3.60	0.38	1.51	12 19	0	0	0
Port Burwell																	4.16		2.01	8 23	0	0	0
Parry Sound				2	5	3	9	4	15	12	9	5	62				1.82	1.18	0.38	10 21	1	2	0
Point Clark				16	5	5	1	14	1	8	5	1	62				2.02	0.27	0.60	5 26	0	3	0
Pelee Island																	7.64	5.65	4.00	6 25	0	0	0
Paris																	1.91	0.52	0.45	6 25	0	6	0
Peterboro																	1.46	0.94	0.55	5 26	0	3	1
Porcupine																							
Providence Bay																	0.80		0.28	5 26	0	2	1
Rouville																	1.23		0.28	10 21	0	0	0
Renfrew																	3.38	1.76	0.91	10 21	0	6	2
St. Catharines																							
Stonecliffe (Rockliffe)				1	2	2	2	0	0	26	1	28	62				2.79	0.17	1.00	11 20	0	0	6
Southampton				21	5	6	6	20	0	2	2	0	62				1.08	1.15	0.44	11 20	1	3	[illegible]
*Sarnia																							
Stratford																							
Stony Creek		3	1	1	25	14	2	0	33	12	6	0	93	11	IV	2 SW	1.60	0.30	0.70	6 25	[illegible]	[illegible]	[illegible]
Schreiber																	6.82		3.00	12 19			
Shelburne																	3.61		1.40	10 21			
Toronto				10	0	21	0	6	5	13	4	3	62				2.42		1.11	12 19			
Uxbridge																	[illegible]						
Uplands				7	0	1	0	11	[illegible]	12	0	0	31				[illegible]						
Ursa																							
White River				5	0	4	2	1	7	10	5	28	62				1.02	0.30	1.80	19 21		4	
Woodstock	72	6	2	7	6	3	18	6	17	7	29	0	93	7.4		17 3 S NW	2.00	1.11	0.54	7 21	0	0	0
Welland																	2.10	0.18	0.50	10 21	0	0	0
Windsor																	1.31	1.28	0.32	9 22	0	0	0
Wallaceburg																	1.28		0.75	8 23	0	0	0
QUEBEC—																							
Abitibi		1	1	7	0	0	5	30	12	29	10	0	93	III	VI	S W	2.42	0.22	0.81	8 23	0	0	0
*Anticosti, E. Point				4	5	5	1	6	18	14	21	16	93				1.69		0.22	1 27	0	0	[illegible]
*Anticosti, W. Point				9	4	6	8	26	1	18	18	0	93				[illegible]	[illegible]	0.88	[illegible]	0	0	1
Brome				17	2	2	7	20	3	34	6	2	93				3.80	0.13	1.10	10 21	0	4	0
*Bicquet				2	35	0	0	1	2	11	4	8	93				0.00		0.00	5 31	0	0	8
Clarke City				3	5	3	4	0	6	9	1	0	31				1.61		0.68	11 20	0	1	1
*Cape Chatte				0	1	14	0	1	3	10	0	31	93				1.42	1.83	1.00	5 26	0	[illegible]	[illegible]
*Cape Magdalen				2	0	5	2	23	7	6	38	19	93				1.82	1.01	1.04	7 21	1	0	1
Chicoutimi		6	1	0	4	0	31	0	45	3	1	3	93	III	VII	S SE	1.17	1.61	0.57	7 21	1	6	[illegible]
Chicoutimi West																					0	3	0
Cap Rouge																	2.76		1.16	11 20	0	0	[illegible]
Disraeli																	3.19		0.84	11 20	[illegible]	7	0
Father Point				1	6	6	4	5	16	17	1	9	62				1.33	2.00	0.35	6 27	1	1	2

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, AUGUST, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Diff. from average.	Temperature: Years observ'n.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.
QUEBEC, *Concluded.*															
Lake Edward	47 39	72 16	1333					62.5		2	85.8	2	31.2	31	20.9
Montreal	45 30	73 35	187	29.97	30.36	29.62	0.74	69.7	3.4	37	89.8	2	47.4	30	16.0
Perkin's Mills	45 38	75 38													
Quebec	46 48	71 13	296	29.97	30.36	29.61	0.75	66.1	3.1	37	88.0	7	43.6	30	19.4
Roberval	48 31	72 13	342												
St. Anne de Bellevue	45 27	73 59						69.7		5	91.0	1	42.2	30	20.9
Shawinigan Falls	46 34	72 43						64.1		8	91.0	6	37.0	30	23.0
Sherbrooke	45 32	72 5	620					66.1		8	88.9	3	42.0	26	22.5
NEW BRUNSWICK															
Chatham	47 3	65 29	21	29.98	30.16	[illegible]	1.12	65.7	1.1	37	92.0	1	43.5	31	20.5
Dalhousie	48 4	66 22	39					61.1		35	87.0	1	45.0	25, 31	17.4
Fredericton	45 57	66 36	164	30.01	30.45	29.34	1.11	64.2		39	87.8	10	40.0	24	22.5
Grand Manan	44 47	66 46	49	30.00	30.42	29.27	1.15	63.5	1.9	27	79.6	7, 10	50.0	30	15.8
Moncton	46 9	64 45	50					63.7		13	87.0	10	39.0	30	21.0
*Point Lepreaux	45 4	66 28	30					58.2		33	70.0	5	52.0	30	
St. John	45 17	66 4	70	30.01	30.43	29.27	1.16	63.6	1.8	38	80.3	5, 6	50.0	31	13.1
St. Stephen	45 11	67 16	35							13	87.5	10	41.0	31	
Sussex	45 38	65 38	69					63.7		14	86.0	3, 5	42.0	25	23.2
NOVA SCOTIA															
Antigonish	45 38	61 59	50					65.0		1	87.0	11	38.0	31	26.4
Halifax	44 39	63 36	88	30.00	30.43	29.21	1.22	65.1	0.5	37	82.0	23	48.5	20	17.7
Port Hastings	45 39	61 22	45					61.8		19	86	5	40.0	31	17.7
Parrsboro'	45 23	64 19	40					61.5		14	84.0	6	41.0	30	21.9
Sydney	46 10	60 10	35	30.01	30.46	29.24	1.22	64.4	0.9	38	86.0	5	46.4	31	19.4
*Sable Island, E. Point	43 58	59 46	25					65.7		28	79.0	11	60.0	23	
Truro	45 22	63 18	77												
Windsor	44 59	64 6	90					66.4		9	88.0	7	44.5	31	29.8
*Whitehead	45 15	61 8	20					61.5		29	72.0	6	50.0	29	
a Wolfville	45 7	64 25		29.91	30.32	29.14	1.18	65.5		12	88.5	10	44.0	22	21.7
Yarmouth	43 50	66 2	65	30.04	30.39	29.36	1.03	62.5	1.7	31	80.5	5	48.4	12	14.6
P. E. ISLAND															
Charlottetown	46 14	63 10	38	29.99	30.45	29.14	1.31	67.1	2.3	36	90.0	5	44.5	31	17.3
Charlottetown (2)	46 14	63 7	75					66.0		2	87.0	5	45.0	31	18.5
Hamilton	46 25	63 48						66.8		14	84.0	9	45.0	31	13.5
NEWFOUNDLAND															
*Amour Point	51 28	56 51						54.9		20	66.0	9	44.0	1	
Burin	47 0	55 10	27	30.00	30.41	29.36	1.05	59.8		2	80.0	5	45.0	26, 28	18.3
*Cape Norman	51 38	55 52						58.3		28	81.0	12	43.0	2	
Fogo	49 43	54 17	30	29.90	30.31	29.33	0.98	61.8		2	75.0	1	43.0	2	13.1
*Point Rich	50 42	57 25	35					58.6		27	70.0	9	49.0	30	
Port aux Basque	47 35	59 10	27	29.95	30.40	29.06	1.34	58.2		2	80.5	5	44.0	26	12.0
St. John's	47 34	52 42	125	29.92	30.25	29.44	0.81	62.6	3.3	39	80.0	3	45.0	31	15.9
BERMUDA															
Prospect	32 17	64 46	151	30.13	30.35	29.88	0.47	78.4	1.0	21	86.6	5	66.0	4	11.3

STATION.	Direction of Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.	Total number of observations.	Velocity of Wind: [illegible]	[illegible]	[illegible]
Lake Edward													
Montreal	1	0	2	8	11	15	16	1	2	62			
Quebec	0	16	3	5	3	15	15	3	0	62			
Chatham	0	5	11	7	0	16	5	8	1	62			
Dalhousie	0	0	9	5	0	0	15	0	5	31			
Fredericton	6	4	10	7	5	23	23	14	1	93	5.3	17	16 NW
Grand Manan	4	1	5	3	5	14	12	8	10	62			
Moncton	0	3	3	1	0	2	8	10	4	31			
*Point Lepreaux	9	1	13	2	9	13	20	14	0	81	11	18	
St. John	3	3	3	12	14	2	6	7	12	62			
Sussex	0	3	0	0	0	5	3	2	18	31			
Halifax	1	4	5	5	9	5	16	9	3	62			
Port Hastings	0	0	0	3	2	15	0	11	0	31			
Sydney	3	1	4	4	1	20	16	5	8	62			
*Sable Island, E. Point	1	8	0	22	5	26	0	4	0	93			
a Wolfville	2	0	0	0	7	5	24	2	22	62			
Yarmouth	3	4	3	5	5	16	6	9	11	62			
Charlottetown	2	4	5	2	10	15	11	8	5	62			
Hamilton	0	0	0	7	0	11	5	1	0	31			
*Amour Point	1	0	11	0	0	4	71	1	8	93			
Burin	3	4	2	3	9	16	12	7	4	62			
*Cape Norman	2	4	4	12	3	4	58	6	0	93			
Fogo	1	3	2	4	6	8	25	8	3	62			
*Point Rich	5	17	0	7	2	6	53	3	0	93			
Port aux Basque	3	0	11	0	6	7	22	9	4	62			
St. John's	5	6	2	2	7	27	13	0	0	62			
Prospect	3	2	7	10	13	10	6	7	4	62			

STATION.	Precipitation: Total.	Diff. from average.	Greatest in 24 hours.	Date.	[illegible]	[illegible]	[illegible]	[illegible]
Lake Edward	2.30		1.20	7	21	0	5	1
Montreal	3.73	0.28	1.21	10	21	0	5	0
Quebec	2.34	1.60	0.43	12	19	3	1	1
St. Anne de Bellevue	3.82		1.25	14	9			
Shawinigan Falls	1.71		0.81	9	2			
Sherbrooke	3.44		0.79	13	18	0	3	
Chatham	[illegible]		2.61	4	19			
Dalhousie	1.25		0.45	3	2	0		
Fredericton	[illegible]	0.08	[illegible]	2	26	4		
Grand Manan	2.84	0.51	1.00	8	22	0	1	
Moncton	4.15	1.08	1.95		21	0	2	
*Point Lepreaux	5.45	0.60	1.10	5	2		11	
St. John	3.15	0.50	1.10	9	22	0	2	6
St. Stephen	3.08		1.21	5	26		1	
Sussex	4.62	2.01	2.61	4	25	0	0	0
Antigonish						0	0	0
Halifax	3.33	1.17	1.28	12	19	0	0	
Port Hastings	2.25		0.92	4	27	0	0	0
Parrsboro'	3.48	0.84	1.55	4	27	0	0	0
Sydney	1.68	1.61	0.67	8	23	0	0	16
*Sable Island, E. Point	1.45	3.21	1.00	3	28	0	0	11
Windsor	2.75		0.47	8	23	0	0	0
*Whitehead	2.49	1.56	1.55	3	28	0	0	4
a Wolfville	3.29	0.27	0.95	5	21	0	0	2
Yarmouth	2.61	1.01	2.20	6	25	0	2	11
Charlottetown	3.25	0.31	1.42	8	25	0	1	0
Charlottetown (2)	[illegible]		1.18	12	19	0	0	0
Hamilton	3.41	0.25	1.40	5	26	0	0	0
*Amour Point	0.90		0.50	2	5	0	0	8
Burin	0.90		0.34	9	22	0	1	1
*Cape Norman	1.10	2.31	0.48	4	27	5	0	10
Fogo	1.00		0.33	5	24	0	0	1
*Point Rich	2.12	1.50	0.54	7	21	0	0	4
Port aux Basque	1.30		1.32	14	17	0	1	3
St. John's	0.67	3.10	0.24	7	21	0	2	2
Prospect	7.24	1.26	1.94	15	16	0		0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING AUGUST, 1911.

STATIONS.	RAINFALL. Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date.	SNOWFALL. Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	REMARKS.
BRITISH COLUMBIA—										
Alkali Lake	1·52	10	21	1·17	19					Thunder on 19.
Annis	1·10	7	24	0·50	7					Thunder on 4, 14, 19.
Beaver Lake	0·70	8	24	0·58	19					
Coquitlam	1·57	5	26	0·78	19					
Denman's Island	0·71	4	25	0·39	7					
Ferguson	0·02	2	27	0·02	7					
Goldstream Lake	0·26	4	27	0·16	19					
Hydraulic	0·21	7	24	0·12	20					
Hornby Island	0·53	3	28	0·30	7					
Jordan River	0·60	2	29	0·50	19					
Jordan River (Bear Creek)										
Little Qualicum (French Creek, V.I.)	0·87	3	29	0·53	19					
Monte Creek	1·06	6	25	0·80	7					
Naas Harbour	3·13	5	26	1·09	27					
Skidegate										
Shawnigan Lake	0·60	1	27	0·45	20					Thunder on 12, 23.
ALBERTA—										
Bardo		8	23	0·82	20					Thunder on 20.
Bismark	1·37	9	23	1·83	20					[20. Fog on 22.
Bruederheim	3·98	11	17	1·70	21					Aurora on 22. Thunder on
Bittern Lake	1·43	11	20	2·48	21					Thunder on 20.
Brooks	2·61	11	20	0·70	25					
Conjuring Creek										
Coutts										
Camrose	1·37	10	21	0·61	20					Thunder on 30.
Caldwell	4·37	13	18	0·93	3					[19, 25, 27, 28, 29, 30, 31.
Dorenlee	2·20	7	24	0·42	21					Thunder on 1, 10, 12, 14, 15, 18.
Dunstable	2·18	17	14	0·75	20					
Grassy Lake	2·50	4	30	2·50	14					
Jumping Pound										
Lacombe										
Loch Sloy	5·13	16	15	1·57	1					Thunder on 21.
Lyndon	6·29	9	22	1·26	6 7					
Lineham	1·50	11	19							1 inch snow fell on 20.
Macleod	3·61	10	21	1·13	7					
Mayeroft	4·08	13	18	2·13	7					Fog on 5, 9, 26.
Okotoks	3·56	8	23	1·17	7					
Peki-ko	2·51	13	18	2·28	7					Thunder on 15, 19.
Ponoka	2·57	7	24	2·17	20					
Priddis										
Playle Creek	3·79	15	16	1·21	7					[Fogs, 11 Auroras, 13 Thunder, 4
Sion	2·13	15	16	0·91	19					
Seven Persons	1·15	3	28	0·70	9					
Tilley										
Wabamum										
SASKATCHEWAN—										
Carmichael										
Conlee										
Elm How										
Forks Swift Current (Gull Lake)	1·77	7	24	0·83	4					
Gull Lake	1·83	6	25	0·51	7					
Gravelbourg	2·85	7	24	2·15	7					
Hanley										
Kindersley										Thunder on 15, 20, 31.
Last Mountain	2·51	10	21	0·53	26					
Maple Creek	1·61	9	22	0·77	8					
Meadow Lake	2·51	6	25	1·02	31					
Willow Creek										[on 12, 21, 31.
MANITOBA—										Aurora on 22, 24. Thunder
Cartwright	2·92	11	20	1·44	3					
Deloraine										Thunder on 12, 15, 30. [on 28.
Gretna	2·16	10	21	0·70	6					Thunder on 3, 14, 15, 21. Frost
Norquay	1·69	11	20	0·65	4					Thunder on 1, 15, 20, 30.
Rapid City	1·83	8	23	2·40	3					
ONTARIO—										Thunder on 1, 8, 27.
Deer Park	2·49	8	23	0·93	27					Thunder on 10, 14.
Dutton	1·23	6	25	0·48	10					Thunder on 1, 2, 7, 8, 15, 16, 18.
Emsdale	2·23	9	22	0·57	7					Aurora on 23. Thunder on 1
Georgetown	1·31	11	20	0·36	3					[2, 3, 6, 10, 16, 17, 18, 27, 28.
Grantham	2·13	11	20	0·51	4					
Grand Valley	3·11	13	18	0·87	6					
MacCue	1·77	5	26	0·75	15					
Orangeville	3·50	6	25	1·61	4					Thunder on 11, 15, 28.
Princeton	1·48	4	27	0·59	1					
Sydenham	1·60	5	26	0·75	18					
Strathroy	2·32	8	23	0·74	16					[16, 17, 18, 21, 27.
Watford	2·35	7	24	0·98	15					Thunder on 2, 5, 6, 7, 8, 15.
Westport	1·32	7	24	0·58	15					
Wooler	0·99	5	26	0·40	28					Thunder on 28.
Westminster	2·29	4	27	1·31	16					Thunder on 6. Fog, on 3
Wesley	2·57	10	21	0·58	4					[Frost on 30.
QUEBEC—										
Lucerne	1·32	6	25	0·48	8					Thunder on 8, 16, 27.
Perkins Mills	1·82	6	25	0·74	8					Thunder on 8, 11.
Quinze Dam	3·71	10	21	1·28	8					Thunder on 9.
Timiskaming	3·63	11	20	1·71	8					
NEW BRUNSWICK—										Fog on 8, 31.
Point Escuminac	2·41	6	25	1·08	17					
NOVA SCOTIA—										Thunder on 15, 19.
Kentville	3·23	5	26	1·07	19					
Liverpool	2·32	5	26	1·61	16					
Milton (Rapid Falls Mill)	2·16	4	27	1·62	16					
South Alton	3·83	7	24	1·41	19					
White Rock	3·77	7	24	1·06	16					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF AUGUST, 1901.

STATIONS.	Hours Ending																	
	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.
Victoria		T	32	50	63	71	78	78	80	92	83	74	72	53	03			
Salmon Arm		22	54	62	64	72	73	71	26	76	69	71	67	50	23			
Nanaimo																		
Vancouver		15	26	11	18	46	51	57	56	68	72	76	72	39	25			
Agassiz			17	10	11	46	18	76	62	69	50	57	48	27	04			
Tranquille																		
Summerland		11	06	62	67	69	69	67	06	67	62	57	58	45	04			
Kamloops	01	26	42	47	54	64	62	73	76	69	61	66	53	50	19			
Edmonton		16	10	12	51	46	58	69	62	59	65	65	52	55	25			
Lethbridge	04	13	58	09	09	63	69	72	06	62	06	63	66	53	11	02		
Lacombe		29	18	50	17	58	61	62	63	62	58	65	60	53	11	01		
Medicine Hat		26	63	67	75	78	77	75	73	67	67	69	67	52	27			
Fort Vermilion		02	22	13	18	57	61	68	71	69	63	65	62	44	20			
Battleford			07	39	54	56	56	53	18	12	38	40	41	37	07			
Indian Head		18	48	55	69	65	65	59	67	62	62	63	65	48	24			
Moosejaw	03	11	06	73	74	71	77	79	76	76	74	69	67	63	30			
Scott		33	53	67	73	81	76	75	72	76	82	73	71	64	41	01		
Rosthern		25	57	72	77	77	81	76	80	77	73	72	64	61	21	05		
Brandon		03	41	71	76	79	79	77	69	70	60	69	62	55	13	05		
Winnipeg		12	40	69	70	72	72	71	75	75	68	71	68	49	07	01		
Haileybury	T	12	64	71	76	77	80	78	70	73	71	61	57	57	10	01		
Gravenhurst		01	26	27	41	67	77	72	74	68	67	64	51	33	17	01		
Woodstock		10	45	53	67	73	74	71	73	70	69	57	53	44	06			
Lindsay			01	30	62	71	76	70	78	81	76	59	43	38	20			
Barrie		04	53	70	73	78	77	79	74	73	67	63	58	48	04			
Toronto	T	20	63	70	75	77	80	83	83	78	73	65	48	32				
Kingston		15	53	63	65	67	66	70	74	73	69	64	54	47	21	T		
Ottawa		20	52	63	65	75	83	83	87	85	72	69	72	58	16			
Montreal		24	53	68	72	77	75	72	80	84	84	84	71	59	05			
Quebec		05	35	53	62	73	78	73	73	72	70	60	56	45	15			
Sherbrooke		17	55	68	70	79	70	66	71	66	59	54	52	47	21			
Fredericton	T	16	40	53	56	62	65	66	67	63	56	50	52	39	35	03		
Charlottetown		24	13	47	54	62	66	64	71	71	66	66	56	48	24			

—	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw.	Scott.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Gravenhurst.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.
Registered duration in hours.	258	296		225	178		247	237	218	261	235	207	211	151	236	260	262	283	216	265	284	213	236	214	253	230	248	279	280	236	216	227	231
Percentage of possible duration	58	66		50	40		56	53	48	59	52	46	46	33	53	65	65	63	55	60	65	49	55	50	59	69	57	63	63	54	56	52	54
Difference from average	+1				5									23	+1				2	—0			0	4		0	1	+11	+11			+2	..
Maximum percentage in one day	81	92		92	83		92	92	89	98	93	91	80	90	90	95	92	99	84	92	96	79	93	80	87	93	93	92	90	84	92	91	91
Date of maximum	21	9		26	25		27	17	17	18	12	18	26	13	12	14	27	10	31	16	19	13	17	9	14	29	13	13	12	5	21	12	18
No. of days completely clouded	2	3	..	4	7		4	2	2	2	3	1	3	0	1	1	0	0	1	3	0	3	2	0	0	1	7	0	0	1	1	4	6

Aurora recorded :

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feblest in brilliancy.

2. Aweme II, Aitkensville III, Waitefield IV.

3. Sion, Haileybury III, Glenbryan I, Muenster I, Waseca.

4. Aitknsville IV.

5. Crescent Lake III, Muenster II.

6. Muenster.

12. Aitkensville IV, Oliver.

13. Sion.

14 Esterhazy IV.

15. Threehills Creek IV, Halkirk

16. Aweme IV, Aitkensville IV, Schreiber, Threehills Creek III, Gravenhurst IV, Haileybury III, Quebec IV, Lake Talon IV.

17. Haileybury IV.

18. Kenora IV, Sion, Dawson IV, Crescent Lake IV.

19. Hillview IV, Treherne III, Aweme II, Aitkensville III, Kenora III, Fredericton I, Haileybury IV, Dawson IV, Esterhazy IV, Lake Talon.

20. Bruce Mines IV, Sion, Haileybury IV, Glenbryan I.

21. Sion, Waitefield III, Gravenhurst IV.

22. Cartwright III, Aitkensville IV, Waitefield III, Bruederheim, Haileybury IV, Dawson IV, Glenbryan II, Yellow Grass, Oliver, Esterhazy III, Sion IV.

23. Georgetown IV, Treherne II, Aweme II, Ninga, Aitkinsville II, Bruce Mines I, Clinton I, Haliburton I, Kenora II, Kakabeka Fal's II, Oliver, Esterhazy IV, Chilliwack III, New Westminster, Salmon Arm, Lucknow IV, Madoc III, Montague, Schreiber, Cape Magdalen, Peace River Crossing, Sion III, Waitefield II, Gravenhurst III, Haileybury II, Parry Sound III, Southampton III, Toronto, IV, Father Point III, Quebec III, Winnipeg II, Dawson IV, Glenbryan II, Yellow Grass, Crescent Lake II, Barrie III, Lake Talon.

24. Cartwright, Aweme III, Aitkensville IV, Agincourt II, Birnam III, Kenora IV, Matheson III, Harmattan IV, Sion, Halkirk, Haileybury IV, Ottawa II, Port Arthur I, Cannington Manor, Esterhazy IV.

25. Aitkensville IV, Kenora IV, Kakabeka Falls IV, Dawson IV, Crescent Lake IV, Esterhazy IV.

26. Aweme III, Threehills Creek III, Sion II, Waitefield III.

27. Aweme II, Pakan IV, Waitefield IV, Crescent Lake IV.

28. Aitkensville III, Esterhazy III, Fort Vermilion III.

29. Threehills Creek, III, Sion,

30. Aweme III, Lucknow IV, Threehills Creek III, Sion III, Waitefield II, Haileybury III, Glenbryan II, Oliver, Quill Lake, Fort Vermilion IV.

31. Lucknow IV, Chicoutimi, Sion IV, Quebec IV, Waseca, Fort Vermilion III.

Thunder recorded :

1. Rapid City, Georgetown, Emsdale, Deer Park, Brantford, Bruce Mines, Haliburton, Midland, Montreal River, Uplands, Fruitvale, Threehills Creek, Alix, Hillsdown, Sion, Halkirk, Red Deer, Waitefield, Dunstable, Toronto, White River, Cannington Manor, Enderby, Hope, Princeton, Quesnel, Salmon Arm, Summerland, Grand Forks, Annis, Fort St. James, Lake Talon.

2. Georgetown, Emsdale, Westport, Treherne, Aweme, Almasippi, Beatrice, Haliburton, Lucknow, Madoc, Paris, Stony Creek, Uplands, Chicoutimi, Chicoutimi East, Sion, Waitefield, Gravenhurst, Port Stanley, Toronto, Pemberton Hatchery, Princeton, Grand Forks, Chilcoten, Barrie, Lake Talon.

3. Norquay, Georgetown, Haliburton, Lucknow, Madoc, Renfrew, Point Clark, Chicoutimi, Lake Edward, Waitefield, Melfort, Nelson, Alberni, Hope, Princeton, Grand Forks, Berens River, Chilcoten, Lost River, Barrie.

4. Lucknow, Uplands, Harmattan, Loveland, Gravenhurst, Ottawa, Southampton, Chilliwack Hope, North Nicomen, Grand Forks, Lost River, Lake Talon.

5. Westport, Aurora, Madoc, Peterboro, Renfrew, Waitefield, Princeton, Rossland, Tobacco Plains, Lakefield, Lost River.

6 Georgetown, Westport, Wesley, Morden, Almasippi, Agincourt, Brantford, Haliburton, Madoc, Montague, Paris, Renfrew, Lake Edward, Shawinigan Falls, Lindsay, Montreal, Quebec, Bella Coola, Alton, Clarke City.

7. Emsdale, Westport, Aweme, Birnam, Brantford, Bruce Mines, Kenora, Lucknow, Paris, Schreiber, Stony Creek, Chicontimi, Sherbrooke, Haileybury, Port Stanley, Southampton, Toronto, Chatham, N. B., Glenbryan, Divide, Yellow Grass, Chaplin, Cannington Manor, Rossland, Lakefield, Clarke City.

8. Emsdale, Westport, Deer Park, Perkins Mills, Agincourt, Kakabeka Falls, Madoc, Montague, Montreal River, Peterboro, Providence Bay, Renfrew, Uplands, Chicontimi East, Lake Edward, Shawinigan Falls, Waitefield, Lindsay, Gravenhurst, Ottawa, Parry Sound, Toronto, Montreal, Queeee, Kingston, Salmon Arm, Lakefield, Barrie, Lake Talon.

9. Bruce Mines, Kenora, Kakabeka Falls, Lucknow, Providence Bay, Chicontimi, Waitefield, Southampton, White River, Timiskaming, Quinze Dam.

10. Georgetown, Dutton, Birnam, Lucknow, Madoc, North Gower, Peterboro, Point Clark, Pakan, Loveland, Sion, Waitefield, Dunstable, Muenster, Alberni, Chilliwack, Hope, New Westminster, North Nicomen, Princeton, Chilcoten, Campsie.

11. Princeton, Paris, Peterboro, Stony Creek, Lake Edward, Gleichen, Threehills Creek, Sion, Lindsay, London, Port Stanley, Toronto, Glenbryan, Enderby, Hope, Salmon Arm, Wilmer, Lost River.

12. Cartwright, Gretna, Treherne, Morden, Aweme, Almasippi, Kenora, Athabasca Landing, Sion, Dunstable, Divide, Crescent Lake, Massett, Shawnigan Lake, Campsie, Clarke City.

13. Treherne, Oakbank, Montreal River, Matheson, Chicontimi East, Threehills Creek, Alix, Hillsdown, Loveland, Halkirk, Red Deer, Waitefield, Haileybury, Last Mountain, Glenbryan, Divide, Yellow Grass, Crescent Lake, Chaplin, Cannington Manor, Saskatoon, Lost River.

14. Norquay, Dutton, Ninga, Kakabeka Falls, Schreiber, Brome, Lake Edward, Threehills Creek, Harmattan, Loveland, Sion, Halkirk, Dunstable, Quebec, Quinze Dam, Crescent Lake, Chaplin, Esterhazy.

15. Rapid City, Norquay, Gretna, Emsdale, Westport, Princeton, Kentville, Almasippi, Ninga, Agincourt, Birnam, Brantford, Madoc, Montague, Paris, Renfrew, Uplands, Fredericton, Brome, Sherbrooke, Moncton, Harmattan, Pekisko, Dunstable, Haileybury, London, Ottawa, Port Stanley, White River, Montreal, St. John, N.B., Chatham, N.B., Cannington Manor, Annis, Berens River.

16. Georgetown, Emsdale, Westport, Perkins Mills, Birnam, Brantford, Clinton, Haliburton, Lucknow, Madoc, Montague, Montreal River, Matheson, Paris, Point Clark, Sherbrooke, Point Lepreaux, Threehills Creek, Haileybury, London, Port Stanley, Southampton, Toronto, White River, Kingston, Yarmouth, Glenbryan, Chaplin, Rathmullen, Lost River, Lake Talon.

17. Georgetown, Westport, Agincourt, Lucknow, Matheson, Point Clark, Harmattan, Haileybury, Toronto, Montreal, Lake Talon.

18. Georgetown, Emsdale, Westport, Hillview, Treherne, Morden, Almasippi, Aitkensville-Agincourt, Beatrice, Aurora, Birnam, Haliburton, Madoc, Brome, Chicontimi, Lake Edward, Sherbrook, Pt. Lepreaux, Sion, Lumnford, Red Deer, Dunstable, Gravenhurst, Haileybury, Minnedosa, Parry Sound, Toronto, Quebec, Kingston, Cannington Manor, Campsie, Lakefield, Barrie, Hamilton.

19. Kentville, Ninga, Fredericton, Brome, Pt. Lepreaux, St. Stephen, Gleichen, Threehills Creek, Athabasca Landing, Hillsdown, Blairmore, Loveland, Sion, Halkirk, Waitefield, Pekisko, Dunstable, Minnedosa, Montreal, Grand Manan, Charlottetown, Yarmouth, Muenster, Oliver, Prince, Golden, Rossland, Salmon Arm, Wilmer, Annis, Chilcoten, Campsie, Lost River, Alkali Lake.

20. Cartwright, Rapid City, Brandon, Hillview, Treherne, Aweme, Almasippi, Aitkensville, Harmattan, Bittern Lake, Bruederheim, Last Mountain, Rosthern, Cannington Manor, Muenster, Prince, Rathmullen, Esterhazy, Berens River, Lost River.

21. Norquay, Morden, Schrieber, Threehills Creek, Waitefield, Loch Sloy, Winnipeg.

22. Cowichan, Chilliwack, Hope, New Westminster, North Nicomen, Princeton, Salmon Arm.

23. Toronto, Nicola, Shawnigan Lake.

24. Westport, Loveland, Sion, Waitefield, Chaplin.

25. Threehills Creek, Hillsdown, Loveland, Sion, Halkirk, Waitefield, Dunstable, Tobacco Plains.

26. Salmon Arm.

27. Georgetown, Westport, Deer Park, Perkins Mills, Agincourt, Beatrice, Haliburton, Madoc, Renfrew, Schreiber, Dunstable, Gravenhurst, London, Toronto, Kingston, Lakefield, Barrie.

28. Georgetown, Westminster, Princeton, Haliburton, North Gower, Providence Bay, Chicoutimi, Lake Edward, Sion, Red Deer, Dunstable, Haileybury, Father Point, Montreal, Campsie, Clarke City.

29. Fredericton, Threehills Creek, Loveland, Sion, Bardo, Dunstable, Lost River.

30. Rapid City, Gretna, Morden, Sion, Waitefield, Dunstable, Caldwell, Crescent Lake, Lost River.

31. Cartwright, Morden, Aweme, Schreiber, Blairmore, Sion, Halkirk, Red Deer, Dunstable, Gravenhurst, Winnipeg, Last Mountain, Rathmullen, Esterhazy.

FORECASTS FOR AUGUST, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1328. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per centage.
Alberta	83	61	12	7	81·3
Saskatchewan	82	65	10	7	85·4
Manitoba	84	74	4	6	90·5
Lake Superior	115	92	18	5	87·8
Georgian Bay	129	111	13	2	93·4
Ottawa Valley	101	83	17	1	88·0
Upper St. Lawrence	104	83	17	4	88·0
Lower Lake Region	129	111	14	4	91·5
Lower St. Lawrence	120	92	18	10	84·2
Gulf	121	94	26	1	86·3
Maritime Provinces West	127	103	12	12	85·8
Maritime Provinces East	127	103	10	14	85·0
Total	1328	1068	171	79	87·6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.
September 26, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. SEPTEMBER, 1911. No. 9.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

The mean temperature of the month in British Columbia closely approximated to the average of the preceding twenty-five years, falling for the most part less than 1° below. In the Queen Charlotte Islands there appeared to be an excess of 2° over the average. In the valley of the lower Fraser rain fell on 12 or 13 days, and the amount was generally a little in excess of normal. Elsewhere in the province, except on Vancouver Island, there was a general deficiency of precipitation. Sharp frost occurred in the Kootenays and Okanagan Valley about the 24th and 25th.

The mean temperatures were between 2° and 3° less than normal in the southern portion of Alberta, but at Edmonton were nearly average. During the first week maximum temperatures exceeded 80° in the southern districts, while in the north 75° was not reached; 8° to 12° of frost occurred at the beginning of the last week over the greater part of the southern and central portions of the province, and a temperature of 9° was recorded at Athabasca Landing on the 24th. Precipitation appeared to be in excess of the normal in the south but somewhat deficient in the more northerly districts.

In Saskatchewan the difference from normal September temperature was about 2°. At Prince Albert, however, there was a deficiency of 1°, and at Qu'Appelle the month was 3° cooler than normal. As in Alberta, sharp frosts occurred during the last week, but were not so severe in the northern portion. About two-thirds of the usual rainfall was recorded. Weather conditions were much the same in Manitoba as in the Prairie Provinces, as regards temperature, but the precipitation was well in excess of normal.

Temperatures in the peninsula of Ontario were nearly normal, but in other parts of the province were 2° to 3° below. The month began with temperatures ranging between 85° and 90° but ended with frost, which was severe in Algoma, but in the Ottawa Valley did not exceed 7° and in the southern counties was not of general occurrence. Precipitation was heavy in some of the southern counties, and while a little less than normal in many other parts of the province there was no marked deficiency except on the eastern shore of the Georgian Bay.

In Quebec the majority of observers reported less than the average precipitation and the mean temperatures from 1° to 2° below normal.

In Nova Scotia nearly twice the normal rain-fall was recorded, while in the remainder of the Maritime Provinces, the precipitation although not so heavy was generally well above average. Temperatures were 2° lower than the twenty-five year average, except in southern Nova Scotia, where the deficiency was but 1°.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for September exceeded the average throughout the greater part of Canada, the greatest positive departures occurring in Northern Saskatchewan and Northern Alberta. In Central British Columbia, however, the mean pressure for the month was somewhat below normal.

The range of difference from normal throughout Canada was 0·18 of an inch, the extremes being +·11 of an inch at Prince Albert, Sask. and —·07 of an inch at Kamloops, B.C.

LOW AREAS.

The paths of fourteen areas of low pressure were sufficiently well defined to be charted. One first appeared in the Yukon Territory, four in Northern British Columbia, two in the Western Provinces, one in the North Pacific States, one in the South Pacific States, three in the Western States, one to the southward of the Maritime Provinces and one in Northern Quebec.

The general track of the areas was over or to the northward of the Great Lakes, thence to the Straits of Belle Isle and Newfoundland. A few only were energetic, the most pronounced being the area which appears to have formed in the vicinity of Kansas on the 27th, whence it travelled over the southern portion of the Lower Lake Region with increasing intensity, becoming a pronounced storm as it passed along the Nova Scotian coast and over Newfoundland.

HIGH AREAS.

Ten areas of high pressure were charted for the month, which is a larger number than usually occur in September. Three first appeared in the Yukon Territory; three on the northern boundary of the Western Provinces; three on the coast line of the North Pacific States and one to the northward of Lake Superior. The general track of the areas was over the Great Lakes, thence either southeasterly off the New England coast or elsc over the Maritime Provinces and Newfoundland. They were for the most part well pronounced systems for so early in the autumn season and attended by much cool weather, also in more northern districts by sharp night frosts on several occasions.

TEMPERATURE.

The mean temperature of September, 1911, was lower than the average of the preceding twenty-five years over the whole of the Dominion, except at a few points in British Columbia and Ontario, where the average was barely equalled.

The highest and lowest temperatures recorded in each Province during the month of September, 1911, were:

	HIGHEST.	LOWEST.
British Columbia	94° at Crawford Bay on the 2nd.	16° at Fort St. James on the 22nd.
Alberta	87° at Cardston on the 7th.	9° at Athabasca Landing on the 24th.
Saskatchewan	88° at Glenbryan on the 1st.	14° at Muenster on the 23rd.
Manitoba	82° at Aweme on the 3rd.	19° at Cypress River on the 30th.
Ontario	91° at Chatham on the 1st & 2nd.	14° at White River on the 28th.
Quebec	85° at Shawinigan Falls on the 10th.	23° at Lake Edward on the 29th.
New Brunswick	84° at Grand Manan on the 4th.	23° at St. Stephen on the 29th.
Nova Scotia	87° at Antigonish on the 9th.	28° at Antigonish on the 15th and at Windsor on the 29th.
P. E. Island	75° at Charlottetown on the 2nd.	32° at Charlottetown (2) on the 29th.

PRECIPITATION.

In Quebec, northern Alberta and parts of British Columbia and Ontario, there was a deficiency of rain, but elsewhere in the Dominion it was plentiful, while in Nova Scotia it was excessive.

WINDS, SEPTEMBER, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of days of Calm.	Number of days of Strong Winds.	Number of days of Fresh Winds.	General Direction.
British Columbia							
Victoria	4495	261	30	1	1	13	SW.
Steveston	6116	418	26		5	12	SW.
Triangle Island	5177	484	58				SW
Alberta.							
Edmonton	3808	266	19		2	5	W
Saskatchewan.							
Battleford	6363	397	30	1	7	9	NW
Prince Albert	4091	268	18		1	1	N.
Swift Current	7043	431	32	1	6	11	N., NW.
Manitoba.							
Winnipeg	7625	414	30	1	10	11	W.
Ontario.							
Port Arthur	6718	430	35	2	7	8	N., NW
Southampton	5490	345	26		3	13	N.
Woodstock	1742	260	25		3	12	NW.
Toronto	7755	423	32	2	8	6	NW.
Quebec.							
Quebec	7522	675	33	2	9	11	NE.
Father Point	8151	482	29		19	5	W.
Anticosti, SW. Pt.	10358	881	42	9	10	5	NW.
Maritime Provinces.							
Fredericton	4877	327	21		1	12	NE.
St. John	7965	466	33	3	9	12	NW.
Pt. Lepreaux	9607	586	51	6	11	11	W
Halifax	7983	601	36	4	7	12	NE.
Flat Point	11546	1171	69	9	14	1	SW., NW.
Charlottetown	6074	414	29		4	8	SW.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA SEPTEMBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from	Precipitation: Amount	Difference from average.	Heaviest fall in month.	Days with precipitation	No. of fair days	No. of auroras	No. of thunderstorms	No. of fogs
				in.	in.	in.	in.																																	
BRITISH COLUMBIA—																																								
Alberni (Beaver Creek)	49 15	124 49	300					57·0	....	16	89·0	1	29·0	25-26	23·9																		2·96	[illegible]	0·81	16	14	0	3	0
Agassiz	49 14	121 31	52					56·8	....	21	80·0	1	40·0	24	17·8																		4·91	[illegible]	1·15	10	20	0	0	0
Atlin	59 35	133 38	2240	29·99	30·31	29·50	0·81	46·0		5	67·5	6	25·0	21	17·1					4	1	5	4	21	4	2	7	15	60	7·8	20·0		1·96		0·67	7	23	1	0	0
Barkerville	53 2	121 35	4180	29·97	30·25	29·66	0·59	43·6	1·8	21	64·0	2, 12	18·0	21	16·0		88	7	8	0	0	0	2	0	1	0	1	56	60	0·8	20·0	15 SW	3·62	0·14	0·90	10	[illegible]	0	0	0
Bella Coola	52 40	126 54	150					54·2	....	13	83·0	3	28·0	23	22·8																		2·13	1·09	0·67	14	16	0	2	
Babine Lake	55 38	126 26	...																																					
Boswell	49 19	116 41																																						
Chilcoten (Big Creek)	51 40	123 0	3100					47·7		8	77·0	1	18·0	22	23·6																		3·52		1·02	11	19	0	6	0
Cranbrook	49 30	115 50						53·3		3	83·0	10	19·0	25	27·9																		2·10		1·[illegible]	9	21	1	0	0
Clayoquot	49 11	125 47	40					54·6		12	70·0	1	37·0	21	17·1																		3·18	[illegible]	1·01	9	21	0	1	0
Cowichan (Tzouhalem)	48 25	123 42	170					55·7		5	79·0	1	31·4	25	19·3																		2·12		0·90	13	17	0	0	0
Chilliwack	49 10	121 57	21					56·5		13	79·0	1	32·0	26	16·6																		1·96	0·03	1·06	14	16	0	0	0
Crawford Bay	49 45	116 45	2000					56·4		2	94·0	2	27·0	21	30·8																		2·62		0·84	13	17	0	3	0
Enderby	50 32	119 7	1180					52·8		8	84·0	2	23·0	21	26·6																		1·74		0·52	12	18	0	1	0
Fort St. James (Stuart's Lake)	54 28	124 12	2280					46·9		18	70·5	13	16·0	22	25·7																		0·7[illegible]	3[illegible]	0·11	9	21	1	0	[illegible]
Fairview	49 11	119 36						...																																
Fruitvale	49 9	117 31																																						
Glacier	51 14	117 29	4072					44·4		8	67·0	10, 11	27·0	25	17·1																		2·38		0·41	12	[illegible]	0	0	0
Golden	51 16	116 55	2550					49·4	0·7	10	79·0	2	20·0	25	24·7																		0·60	[illegible]	[illegible]	[illegible]	[illegible]	0	1	0
Grand Forks	49 2	118 27						54·8		1	92·0	2	25·0	25	25·2																		0·85		0·38	11	[illegible]			0
Greenwood	49 5	118 49																																						
Holberg	50 30	128 18						53·1		3	67·0	6	37·8	23	8·9																		8·52		2·49	18	12	0	0	
Hedley	49 35	120 10	1771					53·9		8	87·0	2	29·0	24, 25	21·1																		1·41		0·67	9	21	0	0	0
Hedley (Nickel Plate)																																								
Hope	49 23	121 25						56·2		2	81·5	2	35·0	21, 26	17·3																		6·23		1·33	15	15	0	4	0
Ikeda Bay	52 17	131 7						52·1		4	67·0	26	48·0	23	6·5																		4·2		1·42	11	19	0	0	3
Kamloops	50 41	120 29	1215	29·93	30·22	29·63	0·59	56·0	2·0	19	88·0	1	27·9	25	22·7		73	6	5	1	4	5	5	6	5	17	4	13	60	3·9	13·0	—	0·88	0·11	0·23	9	21	0	0	0
Ladner	49 5	123 4						54·3	0·3	10	72·0	2	30·0	21, 25	20·1																		3·00	0·19	0·50	11	19	0	0	0
Massett, Q.C.I.	53 58	132 9	30					56·7	+ 2·9	14	75·0	11	45·0	25, 28	13·1																		3·64	0·18	2·00	17	13	0	0	0
a Nanaimo	49 10	123 37	[illegible]																																					
Nicola Lake	50 9	120 30	2120					51·7	1·1	15	81·0	3	25·0	25	22·2																		1·17	0·22	0·60	4	26	1	[illegible]	0
North Nicomen	49 12	122 2	59					56·3		19	79·0	1	36·0	24, 26	15·7																		7·21	2·11	1·47	13	17	0	3	0
New Westminster	49 13	122 54	330					56·2	− 0·1	21	77·3	2	37·1	26	11·8																		4·21	0·70	1·75	14	16	0	2	4
Nelson	49 29	117 21	1760					54·2	—	9	86·0	1	30·0	24, 25	19·0																		3·33		0·76	10	20	0	2	0
Needles	49 40	118 9						54·5	—	2	79·0	2	30·0	21, 26	28·5																		1·30		0·60	5	25	0	0	0
Okanagan Mission (Kelowna)	49 52	119 29	1200					54·0	1·3	12	80·0	1	26·0	25	20·0																		0·90	0·24	0·30	7	23	0	0	0
Princeton	49 29	120 29	1650					51·9		17	82·0	1	21·0	25	25·1																		1·49	0·19	0·35	8	22	0	2	2
Penticton	49 29	119 35						56·4		5	78·0	2	30·0	25	20·2																		1·20		0·60	8	22	0	0	0
Pemberton Hatchery	50 20	122 33						54·0		1	80·0	1, 2	29·0	21	19·1																		1·93		0·58	6	24	0	0	0
Prince Rupert	54 18	130 18	170	29·91	30·21	29·31	0·90	55·3		4	80·0	4, 5	38·0	23	13·5		87	8	11	0	2	8	8	2	0	5	0	35	60	1·6	8·0		1·23		0·27	17	13	0	0	
Quesnelle	52 59	122 30	1700					53·5		16	81·0	12	23·0	22, 23	25·9																		2·20	0·58	0·56	8	22	0	0	0
Revelstoke	51 0	118 6	1476					52·8	0·4	12	80·0	1, 12	27·0	25	22·0																		2·64	0·88	0·67	12	18	0	0	0
Rossland	49 5	117 48	3400					50·8		8	81·0	2	30·5	25	15·2																		2·70		0·47	10	20	0	2	2
Ruskin (Stave Falls)	49 16	122 23	125					55·6		2	77·0	5	35·0	24, 25	18·1																		7·65		1·40	14	16	0	0	6
Salmon Arm	50 42	119 35	1152					53·8		6	84·0	1	26·0	25	23·4																		1·80		0·41	12	18	0	0	1
Salmon Arm (Ex. Farm)								53·6		1	85·0	1, 2	26·0	25	26·6																		0·32		0·15	8	22	0	0	0
Steveston (Garry Point)	49 21	123 17						53·9		16	70·5	6	30·5	25	15·7																		2·68	0·11	0·67	14	16	0	2	0
Swanson Bay	50 37	126 53						54·8	—	3	79·0	5	37·0	21	11·5																		8·71		1·67	16	14	0	0	0
Summerland	49 57	119 0	1100					54·6	—	5	85·0	2	29·0	25	18·7																		1·08		0·50	4	26	1	2	0
Sooke	48 41	123 44	25																																					
Stewart	56 1	130 1	215					51·0	−	1	75·0	5	30·0	21-22	17·6																		3·24		0·5	17	13	0	0	0
Tobacco Plains (Elko)	49 1	115 5	2684					54·0	− 0·1	14	90·1	1	27·0	21-25	21·6																		1·02	− 0·22	0·37	6	24	0	1	0
Triangle Island	50 52	129 5	680	30·05	30·35	29·37	0·98	48·8	—	1	55·0	1	41·0	22	5·7			10	25	7	0	1	6	5	30	1	5	0	60	5·7	15·0	2 SW	5·88		1·71	27	3	0	0	28

*a*Tranquille	50	11	120	29		28·73	29·04	28·45	0·59	56·0		4	84·0	1	28·0	25	23·2	71	5	1	12	10	6	7	2	5	5	13	0	60						0·32	9 21	0	0	0
Vernon (Coldstream Ranch)	50	11	119	15	1246					55·1		18	87·0	2	28·0	24	22·8																	0·91	0·52	0·59	6 24	0	0	0
Victoria	48	24	123	19	85	30·00	30·33	29·73	0·60	55·5	+1·1	19	72·7	2	37·8	26	13·9	79	7	5	7	1	2	1	11	11	11	4	6	60	7·4	20·0	6 SW	2·25	−0·15	0·63	12 18	0	3	3
Vancouver	49	17	123	5	136	30·01	30·31	29·73	0·58	56·0	+0·4	11	71·4	1	37·4	24	13·9	83	6	8	2	5	9	12	2	1	5	5	16	60	2·8	8·0		1·41	0·05	1·08	15 15	0	2	4
Winter Harbour	50	32	128	3						51·2		17	72·0	10	38·0	26	11·6																	5·49	1·68	1·51	12 18	0	0	0
Wilmer	50	31	116	11																																				
YUKON:—																																								
Carcross	60	11	134	31	2171					41·8		5	67·0	5	22·0	21	19·4																	1·12		0·85	5 25	0	0	0
Dawson	64	4	139	20	1200	30·09	30·57	29·38	1·19	43·3		9	77·0	6	12·0	19	25·1		6	6	1	0	0	0	2	0	0	2	55					0·86	—	0·26	9 21	1	0	3
ALBERTA																																								
Athabasca Landing	54	43	113	47	1650					46·1		9	76·0	12-13	9·0	21	26·6				3	2	7	1	5	2	7	2	0	20				1·38		0·63	6 21	0	1	0
Alix	52	24	112	10						47·7		6	72·0	12-13	22·0	21	21·0				2	2	1	1	1	6	1	5	2	31				1·82		0·78	7 24	0	0	9
Banff	51	10	115	34	4542	30·02	30·30	29·49	0·81	44·8	−1·6	15	72·4	12	18·6	24	21·3			4	3	9	3	1	1	19	7	0	11	60				1·14	0·61	0·51	11 19	0	0	0
Blairmore	49	4	114	30	4225					43·7	—	2	78·0	11	20·1	23	25·0																	5·05		1·50	10 20	0	0	0
Calgary	51	2	114	2	3389	29·95	30·26	29·50	0·76	47·4	−2·8	27	71·0	10-12	21·0	24	22·2			7	0	7	2	8	3	5	3	25	7	60				0·89	0·35	0·30	5 25	0	0	0
Cardston	49	12	113	18						45·2		7	87·0	11	19·0	24	25·7																	1·81		1·57	7 24	0	0	0
Didsbury	51	40	114	8	3300					47·7		9	71·0	11	20·0	24	22·3			9	0	5	3	1	1	5	2	13	0	30				1·33		0·11	7 23	0	0	0
*a*Dunvegan	55	56	118	35	1305																																			
Daysland	52	52	112	17																																				
Delia	51	38	112	25						46·2		1	72·5	2	22·5	25	22·1																	1·10		0·41	5 25	1	0	1
Edmonton	53	33	113	30	2158	29·97	30·37	29·46	0·91	50·1	0·2	28	77·0	12-13	20·0	22	21·6			3	6	2	7	5	7	1	21	10	1	60				0·98	0·52	0·46	10 21	0	0	0
Eckville	52	23	114	22								1																												
Endiang	52	0	112	0	2795					47·5		1	75·0	12-13	20·2	23	22·1																	0·96		0·13	3 28	0	0	0
Fort Vermilion	58	27	116	3						—		7	71·8	7	—	—	—																	1·78		0·67	6 25	10	1	0
Gleichen	50	59	112	51	2952					46·2		9	71·0	10-12	21·0	21	25·6																	0·77		0·45	4 26	0	0	0
Gilt Edge	52	59	110	43						47·5		2	75·0	12	13·6	22	26·4																	0·85		0·75	2 28	0	0	0
Hillsdown	52	14	113	29	2806					47·9		7	72·0	12	21·0	25	20·3				1	7	0	13	5	0	0	20	5	60				1·89		0·61	5 21	1	0	2
High River	50	35	113	53	3391					47·1	—	5	71·0	3-12	20·0	21	21·5																	2·14		1·10	8 2	0	0	0
Harmattan	51	45	114	23	3500					44·9	—	4	71·0	12	17·0	21	27·3																	1·67		0·78	10 20	0	0	0
Halkirk, (Emsburg)	52	17	112	10						47·1	—	4	73·0	2	21·0	24	19·6				7	10	3	5	13	7	4	11	0	60				1·59		0·53	8 22	1	1	1
Lethbridge	49	42	112	51	2961					50·8	—	11	81·8	1	25·0	23	22·5																	3·98		1·73	9 21	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						50·2	—	1	82·9	2	25·4	25	23·7																	1·46		1·36	9 21	0	0	0
Lacombe	52	58	113	44	2783					47·7	—	4	76·0	2	21·5	25	25·0																	2·50		0·95	9 21	0	0	0
Lawrence	50	46	113	26						46·2	—	5	75·0	2	16·0	25	35·4																	1·64		0·75	8 22	0	0	0
Lunnford	54	33	114	19						46·5	—	2	75·6	12	17·4	22	27·4																	1·68		1·45	4 26	0	0	0
Loveland	52	30	114	59						47·9		2	76·0	13	20·0	25	25·4				1	3	2	8	3	3	5	5	0	30				0·85		0·13	4 26	0	0	0
Medicine Hat	50	1	110	37	2161	29·93	30·25	29·59	0·66	53·5	−2·6	27	81·0	12	28·0	23	24·6			8	3	10	2	3	16	8	3	2	13	60				1·75	0·71	0·38	11 19	0	1	0
Macleod	49	44	113	24	3128					49·3		17	81·0	1	26·5	23	22·0																	3·14	2·01	1·62	6 21	0	0	0
Moose (Tyrol)	51	15	110	39																																				
Peace River Crossing	56	15	117	15						47·8		4	79·0	12	26·0	21	24·5																	3·02		0·93	6 21	0	0	3
Pembina	54	12	114	0						47·3	—	4	75·0	15	16·0	22	27·4				6	2	3	1	1	5	2	4	6	30				1·65		1·54	4 26	0	0	0
Pakan (Victoria)	54	0	112	31						47·2	—	7	77·6	13	17·5	22	26·3				6	9	1	1	5	12	12	7	7	60				1·35		1·06	7 23	0	1	1
Pincher Creek	49	0	114	4	3750																																			
Red Deer	52	16	113	49						47·4	−2·0	11	71·0	2	22·0	23	22·6				6	2	1	5	1	1	3	4	0	20				1·61		0·46	11 19	0	0	4
Spirit River	55	10	118	47						44·4	—	2	75·0	12	16·0	22	26·4																	2·92		1·25	5 25	0	0	1
Sundial	50	6	112	34						48·9	—	1	77·0	1	22·0	24	21·9																	2·11		1·21	6 21	0	0	0
Threehills Creek	51	30	113	11																																				
Wetaskiwin	52	58	113	23	2180					50·1	—	10	77·0	13	18·5	21	26·8																	1·50		1·00	2 28	0	0	0
Waitefield	53	29	111	38	2000					47·9		6	75·8	15	16·0	22	21·9				8	3	8	6	6	7	11	23	18	90				1·90		0·85	15 15	5	2	3
SASKATCHEWAN—																																								
Battleford	52	41	108	20	1620	29·96	30·32	29·50	0·82	49·7	−1·9	21	76·0	10-13	23·0	25	22·9	86			7	5	1	15	2	12	5	20	23	90				1·29	0·03	0·34	7 23	0	6	0
Broadview	50	23	102	33	1960					48·3	—	7	82·0	2	21·0	21	27·7																	2·10		1·00	3 27	0	0	0
Brownlee	50	45	106	0																																				
Chaplin	50	26	106	39	2202					48·4		22	77·0	12	22·0	24	25·7				2	8	3	3	0	2	6	12	0	30				1·05	0·20	0·54	9 21	1	5	0
Cannington Manor	49	43	102	2	2061																																			
Crescent Lake	50	59	102	25	1658					46·6	—	7	75·4	11	22·2	25	26·9				2	5	1	2	7	6	2	5	0	33				1·97		0·45	12 18	3	4	2
Cumberland House	53	56	102	16						51·8		1	80·0	2-7	20·0	29	32·1																	3·60		1·10	5 25	0	0	0
Duck Lake	52	51	106	20																																				
Estevan	49	12	103	4	1858					50·9	−2·2	11	78·0	12	27·0	24	21·1				0	0	1	2	4	3	6	3	8	30				1·29		0·53	4 26	1	0	0
Grenfell (Brownhill)	50	23	102	53	1957					46·7		10	80·0	13	20·0	25	25·1				1	10	5	15	2	19	1	7	0	60				3·31		1·22	5 25	0	0	0
Glenbryan (Larchmount)	49	54	107	27						49·3	—	1	88·0	4	23·2	25	21·6				4	15	0	5	6	3	10	23	0	60				3·79		1·19	9 21	2	3	0
Humboldt	52	12	105	9						48·4		6	74·0	3	21·0	7-8	24·0																	0·94		0·54	2 28	0	0	1

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, SEPTEMBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observed.	Temperature: Highest.	Date.	Temperature: Lowest.	Date.	Mean daily range.	Mean temperature of dew point.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total	Velocity of wind			Precipitation: Total	Difference from average.	Heaviest in 24 hours.					
	° ′	° ′		in.	in.	in.	in.																																	
SASKATCHEWAN—*Con.*																																								
Indian Head	50 28	103 40	1924					48.2		21	79.0	13	20.0	24	23.4					5	11	1	6	10	11	11	16	13	90				1.11	0.80	0.35	6	21	0	0	0
Kelvinhurst	49 21	106 29						48.9		1	79.0	2, 12	24.0	25	22.6																		6.35		2.57	10	29	0	1	0
Lloydminster	53 18	110 0						45.2		6	73.4	13	17.0	25	26.7																		1.73		1.00	8	22	0	0	0
Luseland	52 5	109 24						46.7		1	74.5	12	18.0	25	26.8																		0.75		0.25	[illegible]	[illegible]	0	0	0
Lost River								46.4		1	71.0	3	24.0	23	23.7																		1.63		0.50	13	17	0	3	0
Moose Jaw	50 24	105 35	1759	29.96	30.35	29.56	0.79	49.9		16	82.0	12	27.0	29	25.1		79			13	21	9	5	0	12	10	12	8	90				0.93	0.06	0.21	7	23	0	1	0
Moosomin	50 0	101 37	1884					48.1		9	76.0	13	23.0	25	22.3					0	0	6	2	5	5	8	1	0	30				1.38		0.65	6	21	0	0	0
Muenster (St. Peter's Monastery)	52 0	105 0	1870					45.3		5	73.0	13	14.0	23	20.7					9	7	0	0	8	1	30	1	1	60				1.10		0.80	2	28	2	1	0
Melfort	52 47	104 30						46.2		2	71.0	13	22.0	17	22.2																		1.61		0.40	10	29	1	0	0
Maple Creek (Divide)	49 55	109 28						45.8		2	75.2	12	21.2	24	21.3																		3.19		1.68	11	19	3	2	6
Onion Lake	53 52	109 59						46.8		1	72.0	3, 13	18.0	25, 26	30.3					4	8	2	2	1	2	4	7	0	30									0	0	0
Oliver	51 46	108 10						49.5		2	74.0	9	20.0	7	28.3																		0.73		0.46	3	27	1	0	0
Pense (Gatesgarth)	50 20	105 0	1870					47.9		14	75.0	14	20.0	25	29.5					2	0	1	6	1	0	7	7	6	30				1.62	0.60	0.30	7	23	0	2	0
Prince Albert	53 10	106 0	1432	30.00				48.0	1.4	27	73.2	2	21.0	25	23.3		86			8	4	3	4	10	7	1	11	12	60				1.77	0.3	0.57	8	22	2	0	0
Prince (Meota)	51 0	108 20	1700					46.0		5	76.0	1	17.0	25	26.5																		1.11		0.75	7	23	0	1	1
Qu'Appelle	50 30	103 47	2115	29.94	30.32	29.23	1.09	48.9	3.2	27	79.5	13	26.0	25	21.5		76			3	9	2	4	7	16	2	15	1	60				1.25	0.17	0.50	5	21	2	2	0
Quill Lake	52 4	104 14						46.6		1	73.0	11	20.0	7	23.3																		1.40		0.56	5	25	0	0	0
Regina	50 27	104 37	1885					49.1		27	78.0	13	24.0	25	23.8																		0.57	0.44	0.21	7	23	0	0	0
Rathmullen	51 20	108 57						47.5		2	77.0	1	20.0	24	25.7																		1.22		0.24	8	22	0	1	
Rosthern	52 40	106 20	1657					46.7		4	71.1	11	23.0	26	22.2																		1.81		0.83	7	23	0	0	
Swift Current	50 20	107 45	2439	30.01	30.33	29.69	0.64	50.7	1.5	26	81.0	12	27.0	25	20.7		79			9	13	1	4	10	14	16	15	5	90				0.96	0.37	0.50	11	19	0	0	
Saskatoon	52 15	106 30	1571					48.9	0.5	13	74.0	11	23.4	7	23.0																		0.56		0.29	3	27	0	0	0
Strassburg	51 5	104 56						48.[illegible]		2	75.0	12	20.0	23	22.0																		1.11		0.70	2	28	0	0	
Scott (Ex. Farm)	51 59	109 30						47.1		1	73.9	10	22.2	25	24.3																		1.92		0.58	10	29	0	1	
The Pas	53 49	101 15	860	29.98	30.39	29.31	1.08	46.0		1	67.2	2	15.0	27	19.2		87			8	1	10	1	5	5	23	2	2	60				1.92		0.50	8	22	0	0	
Waseca	53 6	109 29						45.9		4	73.0	12, 13	17.0	22	24.6					0	3	2	2	0	1	11	11	0	30				1.12		0.71	1	29	1	0	
Yorkton	51 11	102 29						49.1		3	75.0	13	26.0	7	25.4																		1.03		0.45	7	22	0	0	0
Yarbo (Fairfield)	50 30	102 4						46.8		4	80.0	11 11	22.0	25	27.8					6	3	2	2	2	3	6	6	0	30				3.40		1.05	13	17	3	2	1
Yellow Grass	49 49	104 9						49.6		1	79.0	14	26.0	24	25.0																		0.93		0.24	9	21	1	1	
MANITOBA																																								
Almasippi	49 11	99 20						52.3		9	80.0	13	21.0	21	25.2																		1.78		0.50	10	29	0	1	0
a Awome (St. Alban's)	49 42	99 33	1189	28.77	29.06	28.33	0.73	52.1		26	81.5	3	26.0	25	24.6																		2.55	−0.97	0.73	10	14	1	1	0
Brandon	49 51	99 57	1176					51.1		23	76.5	13	21.0	25	23.2			6	3	1	20	4	1	1	13	12	7	28	90	1	111	11 W	1.13	0.21	0.73	11	19	0	0	0
Berens River	52 18	97 23	710					48.3		4	71.0	1	25.0	27	21.6					5	4	9	7	10	2	9	11	0	60				2.19		1.40	4	26	0	2	0
Birtle	50 25	101 1	1703																																					
Carberry	49 52	99 20	1258							6																							1.91		0.56	8	22	0	1	1
Carman	49 31	98 0	872					50.9		8	77.0	1, 14	27.0	25	25.1																		1.60		0.46	7	23	0	0	0
Cypress River	49 33	99 3	1232					49.1		6	78.0	11	19.0	30	26.1																		1.69		0.30	9	21	0	0	0
Dauphin	51 8	100 2	957					50.1		1	76.0	1, 4	25.0	25	22.8																		2.15		0.85	6	24	0	0	0
Hillview	49 55	100 33	1400					50.3		29	76.0	13	25.0	25	21.8			4	5	8	22	6	3	6	30	6	7	2	90				1.62	0.01	0.65	12	18	3	2	0
Minnedosa	50 15	99 50	1699	30.00	30.35	29.40	0.95	48.8	3.3	28	75.6	10	20.0	25	23.0			5	5	2	6	2	1	0	1	3	3	42	60				2.77	+1.25	1.26	10	20	1	1	1
Morden	49 11	98 6	978					52.3		6	78.0	1	23.0	24	24.6					8	13	1	4	5	11	11	4	3	60				1.45		0.48	11	19	0	2	0
Moose Horn Bay (Aitkensville)	51 15	99 33						51.9		2	74.0	1, 11	23.0	7	21.5					8	7	5	4	4	3	5	5	2	13				2.20		0.68	9	21	7	0	0
Ninga	49 14	99 51	1649					—		1	74.6	11																					2.93		1.25	6	24	0	0	0
Oakbank	49 57	96 42	800					50.0		16	72.0	10	26.5	24	18.8					7	3	4	0	1	4	5	3	0	30				2.71	0.40	0.91	9	21	1	0	1
Pipestone	49 34	100 58	1400					51.3		9	84.0	1	24.0	25	27.9																		0.25		0.15	3	27	0	0	0
Portage la Prairie	49 57	98 17	890					50.6		21	75.0	10-17	29.[illegible]	23	22.0																		1.77	−0.29	0.65	7	23	0	0	0
Portage la Prairie (2)	49 56	98 17						51.7		6	77.0	1	30.5	25	21.4																		2.56		0.95	10	20	0	0	0

MANITOBA—*Concluded.*																																							
Pierson	49	11	101	5	1531					50·6		6	76·0	13	25·0	25	25·7																1·42	—	0·42	5 25	0	0	0
Stony Mountain	50	40	97	11	803					51·6		29	78·0	16	25·0	24-28	26·3			6	13	1	6	14	4	12	4	0	60	II	IV		2·25	+0·07	0·50	5 25	0	0	0
Swan River	52	6	101	15	1112					49·4	—	4	75·0	10-13	25·0	5	25·1																2·37	—	1·02	8 22	0	0	0
Treherne	49	36	98	40	1212					51·9		16	78·0	13	26·0	24	20·9																2·11		0·60	13 17	5	1	3
Virden	49	51	100	35	1444					51·5	—	6	79·0	11	26·0	25	36·8																		—	—	0	0	0
Winnipeg	49	53	97	7	760	30·01	30·35	29·43	0·92	52·4	1·5	38	76·1	10	29·1	28	21·5	6	2	10	6	1	13	8	7	3	10	2	60				2·43	+0·51	0·57	11 19	0	0	0
ONTARIO—																																							
Alton	43	51	80	5	1250					54·9		25	81·2	2	21·9	11	29·1	3	1	13	1	27	5	15	6	21	2	0	90	II	II		3·51	−0·72	0·69	19 20	0	3	3
Aurora	43	57	79	24	886					57·5	—	4	84·9	1	27·4	28	22·6																3·12	−0·57	0·89	9 21	0	1	0
Agincourt	43	47	79	16	590																																		
Barrie	44	23	79	41	839					56·9		36	80·9	1	29·8	28	18·7	4	1	9	9	6	5	11	8	5	20	17	90	II	III		2·50	−0·17	0·45	13 17	2	2	
Beatrice	45	8	79	20	800					55·0		36	80·0	18	22·0	28	24·5	5	5	7	0	0	12	12	8	3	9	39	90	I	III		2·00	1·69	0·73	7 23	0	1	
Bruce Mines	46	18	83	55	595					54·0		12	78·0	16	24·0	28	23·0																1·84	1·72	0·81	5 21	1	2	1
Birnam	43	2	81	55	600					60·3		26	85·1	2	35·0	14	17·4			13	8	13	5	10	1	0	4	6	60				3·68	+0·62	1·26	8 22	2	4	
Brantford	43	10	80	21	750					60·5		29	87·0	1	32·0	13	21·7																1·96	−0·35	0·41	7 23	0	2	3
Bloomfield	43	59	77	21	260					59·1	−1·4	11	78·0	2	32·0	28	19·6																2·00	—	0·37	9 21	0	1	0
Bancroft	45	1	77	50						53·9	—	20	81·0	1	26·0	13	28·2																1·31	−2·73	0·86	2 28	0	0	0
Copper Cliff	46	30	80	59						55·3	—	5	81·0	1	26·0	28	21·5																1·10	—	0·47	5 26	0	0	0
Clinton	43	32	81	37						57·5	—	9	80·0	2	31·0	14	20·0			4	3	18	5	2	2	10	16	0	60				4·28		1·20	12 18	1	1	1
Coldwater	44	38	79	40	600					—	—	16	—	—	—	—	—																1·73	1·03	0·51	5 25	0	0	0
Cottam	42	7	82	45	606					63·1		26	80·0	2	31·0	13	26·7			12	0	10	11	21	3	3	0	0	60				5·99	+3·00	1·65	9 21	0	0	3
Chatham	42	23	82	12	595					61·3		25	91·0	1-2	33·0	14	25·5																5·10	+3·55	2·65	8 22	0	0	0
Collingwood	44	31	80	2						57·7	—	17	85·0	19	27·0	14	23·8																1·03	−2·06	0·31	9 21	0	0	0
Elora	43	41	80	21	1274					57·1	+0·7	14	80·0	18	27·0	14	26·2																3·37	+1·17	0·76	10 20	0	0	0
Gravenhurst	44	54	79	20						55·3		40	81·0	3	24·0	28	25·7	5	4	12	4	19	12	13	5	3	8	11	90	II	IV	18 SE	1·63	−0·74	0·58	9 21	2	1	
Guelph	43	33	80	16	1050					59·2		26	83·0	1	30·0	12	20·6																0·31	1·86	0·30	2 28	0	0	
Grimsby	43	13	79	36						62·1		1	89·0	2	35·0	14	19·5																2·91		0·26	10 20	0	0	
Haileybury	47	29	79	39	687	30·06	30·46	29·53	0·93	63·8		16	78·8	18	27·5	28	19·3			5	1	3	4	8	5	13	13	8	60	II	IV	2 NW	2·37	−0·83	0·53	11 19	0	0	0
Hamilton	43	16	79	54	303					61·6		37	85·0	1	36·0	14	15·6																2·88	−0·30	0·93	5 25	0	0	0
Haliburton	45	1	79	8	1050					55·7		21	81·0	4	23·0	14-28	28·0																1·55	1·38	0·80	4 26	0	0	
Huntsville	45	19	79	8						56·6	—	5	80·0	4	21·0	28	24·8																				0	0	0
Kenora	49	48	94	32	1102					47·2		11	69·0	21	31·0	28	13·4																1·27		1·06	7 25	1	1	
Kakabeka Falls	48	29	89	26	912					48·4		3	75·0	1-22	20·0	28	25·5																3·09	—	0·87	11 16	4	2	1
Kingston	44	13	76	29	285	30·07	30·39	29·69	0·70	58·7	−1·9	37	75·4	18	29·7	28	16·2	5		1	11	0	5	3	17	1	19	0	60				2·84	−0·21	0·87	12 18	0	0	
Kinmount	44	45	78	38	920					52·9	−3·6	12	78·5	1	23·0	27	25·6																2·13	0·62	0·92	9 21	0	0	
Lucknow	43	56	81	30	908					56·1		25	83·0	1	30·5	28	22·9																3·88	−0·75	1·06	10 20	2	4	
Lake Talon	46	15	78	48						52·3		16	79·0	1-18	25·0	14	25·3																2·59	1·08	1·05	7 23	4	1	
London	42	59	81	13	808	30·05	30·39	29·62	0·77	60·7		25	87·5	2	32·0	14	24·6	4	6	0	33	6	10	0	5	1	35	0	90				2·85	0·21	0·96	11 19	0	2	0
Lakeside Home	43	40	79	21						60·0	—	7	83·0	1	38·0	28	14·9																				0	0	
Lorne Park	43	32	79	37						62·3		3	89·0	10	31·0	14	25·2																2·53		0·81	6 24	0	0	
Lindsay	44	20	78	45	872					58·3		29	82·7	16	29·0	14	22·2	5	2	18	5	1	3	11	15	7	11	16	90	II	III	7 S[illegible]	2·06	−0·20	0·62	12 18	0	2	0
Lakefield	44	25	78	15	850					58·2		28	80·0	4	31·0	28-30	22·1																2·17	−0·29	0·40	11 19	0	0	
Midland	44	44	79	53	750					67·6	—	4	85·0	10	55·0	5-7																	1·88	1·42	0·90	8 22	0	0	
Madoc	44	30	77	29	575					57·7		7	83·0	1	28·0	30	22·5																1·70		0·52	10 20	0	2	0
Montague	44	56	75	57						56·3		2	83·0	1	25·0	14	23·5																[illegible]		0·67	8 22	0	2	
Montreal River	47	8	79	29						50·8		1	81·0	18	22·0	28	25·9																2·54		0·50	9 21			
Matheson	48	29	80	26						48·9		1	78·0	18	21·5	13	25·3			5	2	1	2	4	3	23	16	1	60				3·12		0·73	11 19			
North Bruce	44	23	81	25						55·3		24	83·0	23	31·0	11	—																2·52	−0·19	0·78	10 20	0	0	
North Gower	45	8	75	43						55·9	—	9	82·0	5	24·0	14	23·4																				0	1	
Owen Sound	44	34	80	55	597					—		33	—	—	—	—	—			20	0	1	0	33	2	4	0	0	60								0	2	0
Orillia	44	37	79	24	775					58·3		20	86·0	1	28·0	27	21·5			1	1	0	3	51	5	0	5	1	30				2·69	−0·28	0·73	9 21	0	0	
Ottawa	45	26	75	42	294	30·04	30·38	29·62	0·76	55·8	−3·1	26	85·0	1	31·0	14-28	19·7			6	5	11	2	4	7	16	5	4	60				3·19	−0·57	[illegible]	12 18	0	2	
Port Arthur	48	27	89	12	614	30·03	30·37	29·51	0·86	50·4	−2·4	29	75·0	15	24·0	28	18·7	6	4	11	3	8	3	6	5	12	12	0	60				2·91	0·30	0·90	12 18	0	2	
Port Stanley	42	40	81	13	592	30·06	30·34	29·63	0·71	60·2	0·6	35	76·7	2	35·7	14	18·9	5	6	0	2	16	3	0	5	15	13	6	60				3·13	+0·32	1·00	12 18	1	3	6
Port Dover	42	47	80	12	635					60·7		39	82·5	2	36·0	28	18·7			1	5	7	2	7	1	2	2	0	30				3·61	1·18	0·96	10 20	0	0	
Port Burwell	42	39	80	55	592					60·4		8	76·0	2	38·0	14	16·6																3·22		0·90	9 21	1	4	
Parry Sound	45	19	80	0	635	30·07	30·36	29·72	0·64	56·7	1·5	35	80·0	18	28·0	28	20·9			3	5	7	8	3	10	4	12	8	60				1·52	2·04	0·35	12 18	0	1	
Point Clark	44	5	81	44	595					—	—	41	—	—	—					21	5	11	4	11	2	6	[illegible]	0	60				3·41	0·36	1·10	[illegible]	0	3	
Pelee Island	41	50	82	35	585					71·1		14	86·0	3-25	42·0	30	13·9																3·07	1·06	[illegible]	4 26	0	3	
Paris	43	12	80	25	840					61·1		22	88·0	1	32·0	14	22·6																3·43	0·72	0·64	12 18	0	4	
Peterboro	44	17	78	19	722					59·0		38	84·0	16	28·0	14	21·5																2·95	0·92	0·44	9 21	0	1	
Porcupine	48	29	81	18																																			
Providence Bay	45	40	82	14						54·7		1	75·0	16	25·0	28	22·4																0·48		0·2	4 26	0	0	
Ronville	45	15	78	57	1038					53·2		4	80·0	1	26·0	27	24·6																2·19		0·96	11 19	0	0	
Renfrew	45	26	76	39	416					55·8		21	83·5	1	25·6	28	21·6																2·46		0·57	13 17	1	3	
Stonecliffe (Rockliffe)	46	9	78	6	557	30·03	30·39	29·54	0·85	53·2	−2·9	27	80·0	1	25·0	28	21·0			4	1	2	0	0	0	15	1	37	60				[illegible]	0·76	0·67	10 20	0	0	
Southampton	44	30	81	21	656	30·08	30·40	29·65	0·75	57·3	−2·5	35	86·7	1	30·6	28	17·8	6	6	21	6	6	0	15	1	1	0	1	60				2·14	0·90	0·46	13 17	0	2	
Sarnia	42	59	82	24	586																																		

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, SEPTEMBER, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'tn	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of auroras.	No. of thunderstorms.	No. of fogs.
ONTARIO—*Concluded.*																																								
Stratford	43 23	81 0	1191					57·4		16	82·0	2	33·0	14	20·2																		2·98	0·16	1·30	4	27	0	0	0
Stony Creek	43 13	79 45	292					61·2		26	88·0	1	33·0	14	18·8			4	6	4	11	19	2	0	29	16	9	0	90	11	VI	7 E.	2·61	0·50	0·90	6	24	0	0	0
Schreiber	48 50	87 15																																						
Shelburne	44 5	80 17						54·9	—	3	80·0	2	27·5	28	20·9																		4·06		1·90	7	23	0	0	0
Toronto	43 40	79 24	350	30·06	30·34	29·62	0·72	60·5	0·3	70	87·3	1	34·2	11	18·7					12	2	15	2	6	3	8	6	6	60				2·57	0·28	0·53	12	18	0	4	2
Uxbridge	44 5	79 8	886					56·5		6	82·0	1	28·0	27	20·5																		2·33		0·50	9	21	0	0	0
Uplands	45 18	79 25						52·7		26	83·0	1	17·0	28	28·7					11	0	7	0	7	0	20	0	15	60				2·05	1·34	0·70	[illegible]	26	0	1	0
White River	48 35	85 16	1252	30·02	30·40	29·53	0·87	47·5	2·5	21	72·0	17	14·0	28	22·5					4	3	3	0	7	3	12	6	22	60				2·31	0·52	0·80	8	22	0	0	[illegible]
Woodstock	43 8	80 47	980	30·02	30·32	29·58	0·74	59·0		37	82·0	10	31·0	11	21·6		77	5	5	11	11	10	9	9	8	14	15	0	87	7·5	15·3	2 W	2·96	1·37	1·13	8	22	0	0	0
Welland	42 59	79 17	577					61·6		25	81·0	2	36·0	14	19·8																		2·46	0·71	0·63	10	20	0	[illegible]	[illegible]
Windsor	42 20	83 4	625					61·2		38	89·0	3	44·0	29	16·4																		1·32	1·92	1·08	14	17	0	0	0
Wallaceburg	42 35	82 24						61·4		6	88·0	1	35·0	14	22·4																		1·30		1·73	10	20	0	0	0
QUEBEC.																																								
Abitibi	48 43	79 22						51·3		16	70·0	1	29·0	26				7	6	10	1	4	2	23	4	34	9	0	90	111	VI	12 W	2·63	0·22	0·80	10	[illegible]	0	0	0
*Anticosti, E. Point	49 6	61 42	30					48·6		28	59·0	3	37·0	15-29						5	7	11	2	6	16	6	30	7	90				3·18		1·06	7	21	[illegible]	0	9
*Anticosti, W. Point	49 52	64 32	30					48·1		30	66·0	18	37·0	27						5	9	8	2	19	6	11	30	0	90				2·81	+0·09	0·88	9	21	0	0	4
Brome	45 10	72 36	678					53·3		31	77·0	3	27·0	11	19·5					26	0	12	0	13	2	26	4	7	90				3·04	0·53	0·75	10	20	0	2	0
*Bicquet	48 25	68 53						44·9		30	54·0	6	37·0	27-30						9	11	0	0	7	0	17	21	4	90				0·40	2·03	0·10	4	[illegible]	0	0	9
Clarke City	50 0	66 25						48·0	—	5	73·0	23	23·0	11	20·6					2	1	3	0	2	9	7	6	1	31			......	4·79		1·27	10	21	0	0	2
*Cape Chatte	49 6	66 45						49·0		30	63·0	23	31·0	28						0	2	7	0	3	9	51	1	17	90				0·17	2·46	0·15	2	28	[illegible]	0	3
*Cape Magdalen	49 16	65 20	93					49·1		29	66·0	6	31·0	15-27						3	0	1	4	18	0	5	44	15	90				1·60	1·00	0·60	10	20	1	0	2
Chicoutimi	48 25	71 5	150							33								7	5	0	22	0	21	0	34	0	12	1	90	111	VIII	25 SE	2·24	0·90	0·81	13	17	3	1	2
Chicoutimi (2)								50·7		1	78·0	23	27·0	30	18·9																							0	1	0
Cap Rouge	46 46	71 18						52·1		1	72·0	6-25	30·2	29	19·2																		4·67		0·87	13	17	0	0	0
Disraeli	45 55	71 21						50·5		1	78·5	3	25·5	29	24·0																		5·02		0·80	11	19	0	2	1
Father Point	48 31	68 19	20	29·99	30·38	29·30	1·08	48·4	− 1·5	34	68·0	16	25·0	27	15·1					1	3	4	0	9	16	20	5	2	60				2·31	0·73	0·89	15	15	2	0	2
Lake Edward	47 30	72 15	1333					48·7		2	72·1	20	22·9	29	20·6																		2·26		0·55	8	22	0	1	1
La Tuque	47 27	72 48	530					51·4		1	78·0	25	21·0	29	26·6																		1·55		0·49	8	22	0	0	0
Montreal	45 30	73 35	187	30·04	30·40	29·54	0·86	56·6	2·2	37	74·3	21	34·3	28	11·3					11	3	2	1	7	17	15	6	0	60				4·27	0·88	1·52	15	[illegible]	0	3	1
Perkin's Mills	45 38	75 38																																						
Quebec	46 48	71 13	296	30·03	30·44	29·42	1·02	52·6	2·8	37	71·5	24	30·2	29	16·2			6	10	3	13	4	1	2	9	19	8	1	60				4·53	+0·76	1·28	16	14	3	2	2
*Roberval	48 31	72 13	352																																					
St. Anne de Bellevue	45 27	73 59						56·6		5	76·8 *a*	21	32·0	14	17·7																		3·46		1·88	9	21	0	0	0
Shawinigan Falls	46 34	72 43						50·2	—	9	85·0	10	24·0	29	26·3																		2·16		1·06	11	19	0	2	0
Sherbrooke	45 32	72 5	620					53·1	—	8	76·9	3	27·1	14	20·2																		1·23		0·74	13	17	0	1	0
NEW BRUNSWICK.																																								
Chatham	47 3	65 29	21	30·04	30·42	29·42	1·00	54·4	2·6	37	76·0	21	36·0	29	18·7			6	4	1	9	5	0	0	16	11	15	0	60				3·00	0·04	0·62	11	16	0	1	0
Dalhousie	48 4	66 22	39					52·7		37	76·0	24	31·0	29	18·7					0	0	7	0	0	0	17	1	5	30				3·23	+0·35	1·15	8	22	0	0	0
Fredericton	45 57	66 36	164	30·06	30·45	29·45	1·00	52·9		38	71·2	11	26·5	29	20·3		80	6	4	5	13	1	7	8	10	20	24	2	90	7·4	15·0	13 NW	2·69	0·68	0·62	12	18	0	2	1
Grand Manan	44 47	66 46	49	30·03	30·41	29·56	0·85	57·3	+ 0·7	27	83·6	4	38·0	29	13·8			5	3	7	7	1	2	5	12	7	17	2	60				5·33	+2·01	1·49	13	17	0	2	3
Moncton	46 9	64 45	50					52·2		14	75·0	2	27·0	13	18·5					0	4	4	1	1	1	5	13	1	30				3·50	+0·66	0·75	11	16	0	0	2
*Point Lepreaux	45 4	66 28	30					52·4		33	63·0	4-18	37·0	14	—			5	6	15	16	5	2	2	19	13	6	0	78	111	IV		2·60	1·05	0·81	7	23	0	1	9
St. John	45 17	66 4	70	30·05	30·44	29·46	0·98	54·3	− 2·3	38	70·5	3	35·5	29	11·2			6	4	14	5	2	4	12	3	3	11	6	60				5·32	+1·68	1·49	16	14	0	2	4
St. Stephen	45 11	67 16	35					53·8	− 2·4	14	79·0	21	23·0	29	23·4																		3·37	+0·21	0·60	9	21	0	0	0
Sussex	45 38	65 38	69					53·4	− 1·9	11	71·5	2	24·0	29	19·2					1	5	1	0	0	4	1	1	14	30				3·61	0·78	1·25	10	20	0	0	0

NOVA SCOTIA—																																						
Antigonish	45	38	61	59	50					55·0	—	1	87·0		9	28·0	15	21·8																		0	0	0
Halifax	44	39	63	36	88	30·02	30·40	29·49	0·91	56·8	− 2·0	37	76·3		2	31·2	29	16·0	7		8	11	1	3	3	8	13	7	3	60	6·87	2·86	2·15	18	12	0	0	2
Port Hastings	45	39	61	22	15						—	20	75·0	1	25	—	—	—			0	2	0	8	0	12	0	8	0	30	1·11	+0·76	1·78	7	23	0	0	0
Parrsboro'	45	23	64	19	40					50·7		15	64·5		2	30·0	23	21·0																		0	0	0
Sydney	46	10	60	10	35	30·03	30·44	29·26	1·18	55·9	− 1·1	38	74·0		20	35·4	16	15·7			6	8	3	1	1	12	13	8	8	60	7·41	+4·25	2·16	19	11	0	1	0
*Sable Island, E. Point	43	58	59	46	25					60·1		27	70·0	1	23	46·0	15	—			3	11	0	15	0	28	0	30	0	90	4·65	1·85	1·5	7	23	0	0	6
Truro	45	22	63	18	77																																	
Windsor	44	59	64	6	90					56·2		9	77·5		3	28·0	29	17·7													3·98		1·35	13	17	0	2	0
*Whitehead	45	15	61	8	20					56·2		28	69·0		20	1?·0	29	—			6	9	5	8	12	25	1	23	1	90	6·89	1·18	2·47	8	22	0	0	4
a Wolfville	45	7	64	20		29·92	30·35	29·47	0·88	56·3		12	79·0		2	32·0	15	18·0			3	3	2	1	6	9	13	8	15	60	6·21	3·28	1·65	13	17	0	0	1
Yarmouth	43	50	66	2	65	30·05	30·42	29·53	0·89	51·9	− 1·3	31	75·1		19	33·0	15	13·6			7	12	2	5	8	2	5	7	2	60	5·39	1·50	1·83	17	13	0	1	8
P. E. ISLAND—																																						
Charlottetown	46	11	63	10	28	30·02	30·39	29·58	0·81	55·8	− 1·9	36	75·0		2	31·5	15	12·9			1	11	2	3	3	19	8	8	2	60	6·23	2·39	1·22	18	12	0	2	1
Charlottetown (2)	46	11	63	7	75					55·3		2	73·0	2	11	32·0	29	11·7													6·26		1·14	21	9	0	0	0
Hamilton	46	25	63	48						55·0		11	75·0	1	12	36·0	13	13·3			1	0	2	1	0	11	11	1	0	30	2·10	1·01	0·77	7	24	0	0	0
NEWFOUNDLAND—																																						
*Amour Point	51	28	56	51																																		
Burin	47	0	55	10	27	30·01	30·13	29·29	1·11	53·1	—	3	68·0		22	33·0	16	18·2			2	3	6	1	8	6	7	23	1	60	9·42		1·40	17	1	1	1	2
*Cape Norman	51	38	55	52						48·2		29	60·0		6	35·0	30	—			1	5	0	6	8	11	15	14	0	90	2·12	+0·32	0·18	10	21	3	0	5
Fogo	49	13	54	17	30	29·96	30·40	29·43	0·97	52·2	—	2	66·0		9	38·0	16	9·9			6	2	1	7	3	9	14	10	4	56	3·45		0·68	16	11	0	0	0
*Point Rich	50	42	57	25	35					51·2		27	61·0		19	41·0	26	—			2	10	1	10	1	6	16	11	0	90	2·42		1·08	9	21	0	0	1
Port aux Basque	47	35	59	10	27	29·98	30·39	29·32	1·07	51·3	—	3	63·5		21	34·5	15	10·4			2	6	11	1	6	4	18	8	1	60	5·07		0·90	16	11	0	1	0
St. John's	47	31	52	42	125	29·52	30·35	29·44	0·91	54·7	+ 1·0	39	74·0		20	36·0	30	13·4	6	6	1	8	7	5	9	12	11	3	0	60	11·42	− 7·07	1·17	18	12	0	0	1
BERMUDA—																																						
Prospect	32	17	61	46	151	30·11	30·31	29·65	0·66	77·2	0·6	21	86·8		10	65·4	28	11·3			4	6	2	9	11	15	4	5	4	60	2·94	2·30	1·62	11	19	0	5	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &C., DURING SEPTEMBER, 1911.

STATIONS	RAINFALL. Amount in inches	No. of Days .01 or over	No. of Fair Days	Heaviest Fall in Month	Date	SNOWFALL. Date	Heaviest Fall in Month	No. of Day	Amount in inches	REMARKS.
BRITISH COLUMBIA										
Alka Lake	[illegible]	10	2	1.26	20					
Alta	1.52	12	18	0.8[illegible]	13					
Beaver Lake	[illegible]	10	20	0.4[illegible]	12					
Coquitlam	[illegible]	9	21	1.78	11					
Denman's Island	[illegible]	10	20	0.54	11					
Ferguson	2.97	8	22	0.64	3					
Goldstream Lake	[illegible]	14	16	0.[illegible]	15					
Hydraulic	2.07	12	18	0.46	27					
Hornby Island	2.20	8	22	0.75	14					
Jordan River	[illegible]	14	16	1.33	1[illegible]					
Jordan River (Boat Creek)	[illegible]	13	1	1.20	14					
LittleQualicum French Creek, V.I.	2.[illegible]	[illegible]	2[illegible]	0.75	[illegible]					
Monte Creek	1.29	7	[illegible]	0.[illegible]	[illegible]					
Naas Harbour	3.61	11	19	0.48	1[illegible]					
Skidegate										
Shawnigan Lake	1.73	14	16	0.[illegible]	1[illegible]					
ALBERTA										
Bardo	[illegible]	1	29	0.[illegible]	1[illegible]					Ice on 22nd.
Bismark	[illegible]	4	2[illegible]	0.30	16	2.0	1	.	21	
Bruederheim	[illegible]	[illegible]	2[illegible]	0.[illegible]	1[illegible]					
Bittern Lake	[illegible]	6	21	[illegible]	16					
Brooks	[illegible]	6	23	0.[illegible]	27	1	1	1	23	
Conjuring Creek										
Coutts										
Campsie	2.18	6	23	1.11	1[illegible]		1		2[illegible]	
Caldwell	6.[illegible]	9	2[illegible]	2.49	[illegible]	1.[illegible]	1	1.[illegible]	[illegible]	
Dorenlee	1.[illegible]	4	26	0.80	18					
Dunstable	[illegible]	12	18	1.10	16					
Grassy Lake	[illegible]	6	23	0.40	6	1.0	1	1.0	22	
Jumping Pound										
Lacombe										
Loch Sloy	[illegible]	10	19	0.81	4	1.0	1	1	22	
Lyndon	[illegible]	4	26	2.8[illegible]	[illegible]					
Lineham	[illegible]	1	27	0.50	6	1.[illegible]	[illegible]	1.[illegible]	21	
Macleod	[illegible]	6	22	1.06	[illegible]	1.[illegible]	2	[illegible]	5.23	
Minda (Many Berries R.)										
Maverott	2.41	8	20	1.20	1	7.0	2	[illegible]	22	
Nateby	0.67	3	23	0.31	2	6.1	2	6.1	22	
Okotoks	1.2[illegible]	[illegible]	24	0.56	4	7.0	1	7.[illegible]	23	
Pekisko	[illegible]	7	20	1.00	3	5.8	3	5.5	22	
Ponoka	2.53	6	23	2.40	18	4.0	1	4.0	19	
Priddis										
Playle Creek	[illegible]	6	22	2.37	1		2		[illegible]	
Sion	[illegible]	10	25	[illegible]	15					
Seven Persons	1.65	5	2[illegible]	2.81	[illegible]					
Tilley										
SASKATCHEWAN										
Carmichael										
Coulee										
Elm How										
Forks Swift Current (Gull Lake)	[illegible]	6	23	1.50	4	[illegible]	1	[illegible]	22	
Gull Lake	[illegible]	4	2[illegible]	0.92	[illegible]	6.0	1	6.[illegible]	23	
Gravelbourg	2.27	4	26	1.5[illegible]	3					
Hanley										
Kindersley										
Last Mountain	0.88	7	23	[illegible]	13.19					
Maple Creek	2.61	11	18	0.50	[illegible]	3.0	1	3.0	21	
Meadow Lake	1.16	[illegible]	27	0.62	27		2		21.23	
Willow Creek	1.00	[illegible]	25	3.13	7					
MANITOBA										
Cartwright	2.[illegible]	9	21	0.67	28					
Deloraine										
Gretna	1.18	5	25	0.46	28					
Norquay	2.2[illegible]	10	20	0.47	2[illegible]		2		26.27	
Rapid City	[illegible]	6	23	[illegible]	28		1		23	
Rosebank										
ONTARIO										
Deer Park	2.5[illegible]	10	20	0.51	29					
Dutton	2.50	7	23	0.80	28					
Emsdale	1.79	9	21	0.43	25					
Georgetown	3.76	14	16	0.79	29					
Grantham	2.67	12	18	0.41	6					
Grand Valley	4.62	11	19	0.98	3					
MacCue	2.50	8	22	0.56	11					
Orangeville	3.62	8	22	1.0[illegible]	2					
Princeton	2.50	8	22	0.52	29					
Sydenham	2.05	5	25	0.8[illegible]	5					
Strathroy	2.5[illegible]	7	23	1.19	29					
Watford	3.44	11	19	0.91	29					
Westport	1.86	7	23	0.71	6					
Wooler	2.44	9	21	0.4[illegible]	11					
Westminster	2.62	[illegible]	2[illegible]	1.04	14					
Wesley	1.46	10	20	0.98	12					
QUEBEC										
Kepawa										
Lucerne	2.46	8	22	0.75	21					
Perkins Mills	2.90	9	21	0.74	1[illegible]					
Quinze Dam										
Timiskaming	[illegible]	9	21	0.[illegible]	11	1.[illegible]	1	1.0	29	
NEW BRUNSWICK										
Point Escuminac	1.86	9	21	0.62	26					
NOVA SCOTIA										
Kentville	4.93	10	20	1.72	30					
Kedgemakooge Lake (New Grafton)	[illegible]	8	22	1.92	30					
Liverpool	[illegible]	9	21	1.[illegible]	1					
Milton (Rapid Falls Mill)	[illegible]	9	21	1.95	1					
South Alton	6.19	12	18	2.22	30					
White Rock	[illegible]	9	21	1.86	30					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF SEPTEMBER, 1911.

STATIONS.	Hours Ending															
	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	
Victoria		01	07	26	42	52	56	58	58	56	51	48	45	17		
Salmon Arm			13	37	46	56	66	67	65	48	45	41	31	11		
Nanaimo																
Vancouver			06	18	30	48	48	49	52	58	53	56	44	11	03	
Agassiz			04	20	40	46	43	45	51	45	47	31	16	01		
Tranquille		03	25	39	54	61	57	60	60	58	58	54	26	19	03	
Summerland		09	27	46	55	52	52	57	52	48	51	39	07			
Kamloops		01	22	44	53	60	68	65	61	58	66	51	26	06	01	
Edmonton		02	22	43	68	73	75	74	68	70	66	53	44	22	01	
Lethbridge		04	38	56	63	64	67	68	70	68	62	58	55	36	02	
Lacombe			08	42	59	65	70	70	71	59	57	47	48	19		
Medicine Hat			17	48	54	58	65	68	71	68	59	40	29	11		
Fort Vermilion				04	23	37	53	67	67	61	61	62	54	16	15	
Battleford			05	24	39	45	55	57	53	48	48	48	36	11		
Indian Head		02	15	34	54	52	52	59	58	54	53	49	33	12	01	
Moosejaw		02	15	11	50	57	52	57	58	57	63	58	47	14	03	
Scott		01	07	39	54	49	56	57	65	66	62	63	48	07	02	
Rosthern			14	52	52	54	59	70	76	68	63	63	50	24		
Brandon			07	33	54	57	62	57	61	56	57	46	21	07	02	
Winnipeg			10	40	49	43	40	38	49	53	55	49	45	18		
Haileybury		02	34	50	55	55	69	69	70	73	67	60	55	38	03	
Gravenhurst																
Woodstock			01	25	57	64	59	66	60	59	55	54	42	10		
Lindsay				10	51	62	63	66	67	65	63	52	47	33		
Barrie			21	56	58	61	58	63	59	56	56	56	51	21		
Toronto			13	55	65	68	66	67	64	68	67	62	56	34	01	
Kingston		01	05	20	44	55	63	69	73	70	65	62	60	51	19	02
Ottawa				22	52	59	68	70	66	70	65	71	64	59	34	
Montreal			04	31	60	65	70	70	66	63	65	65	4	60	19	
Quebec			09	31	44	43	52	54	57	54	55	52	53	08		
Sherbrooke			13	33	47	50	55	54	58	58	58	56	58	10		
Fredericton		01	17	43	48	48	55	54	54	53	46	48	41	20	04	
Charlottetown		04	26	47	56	54	54	49	54	53	49	47	39	21	02	

—	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Scott.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Gravenhurst	Woodstock.	Lindsay.	Barrie	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetwn.
Registered duration in hours.	158	155		114	119	17	164	178	204	213	186	176	166	140	159	173	172	194	155	146	210		165	174	185	206	158	210	211	154	173	157	165
Percentage of possible duration %	42	41		37	32	16	43	47	54	57	49	47	43	37	42	46	45	51	41	39	56		44	47	49	55	53	56	61	41	46	42	44
Difference from average %	−3				+1									8	+3				−5	−7			5	5	+1	+10	−2	+12	+8			+1	
Maximum percentage in one day %	88	88		90	73	97	91	90	89	95	86	84	80	79	93	96	84	88	89	90	98		86	84	89	92	95	93	100	83	94	96	98
Date of maximum	17	11		1	11	11	11	19	7	25	2	1	5	8	2	2	1	12	2	2	13		3	13	17	3	3	13	3	11	18	4	2
No. of days completely clouded	5	5		5	12	6	2	2	2	4	2	5	3	2		3	4	3	3	9	2		5	1	2	1	1	3	4	3	3	3	3

Aurora recorded

Where the class of aurora was noted by the observer, it is given, (I) being the ***brightest***, *(IV) the feeblest in brilliance.*

1. Treherne III, Waitefield III. Aitkensville IV, Sion, Glenbryan I.
2. Aitkensville IV, Sion, Fort Vermilion IV.
3. Red Deer I, Sion.
4. Red Deer I. Aitkensville IV. Sion, Campsie IV, Muenster IV, Cape Norman I, Fort Vermilion II.
5. Red Deer I, Sion.
6. Red Deer I, Aitkensville IV, Sion, Fort Vermilion II.
7. Sion, Gravenhurst IV.
8. Sion.
10. Sion, Glenbryan, Grand Manan IV.
11. Aitkensville III, Sion.
12. Chicoutimi, Sion, Campsie IV, Muenster IV.
13. Haileybury IV.
14. Aweme II, Kakabeka Falls III, Sion III, Quebec IV, Cape Norman II.
15. Insdale II, Hillview I, Treherne IV, Aweme III, Aitkensville III, Crescent Lake III, Divide III, Yellow Grass, Dawson II, Haileybury IV, Cape Norman II, Barrie IV, Kenora I.
16. Lake Talon IV, Yarbo III.
18. Sion IV, Fort Vermilion IV.
19. Cartwright III, Georgetown IV, Hillview I, Aweme II, Oakbank III, Halkirk, Agincourt IV, Kakabeka Falls III, Bruce Mines, Lucknow IV, Clinton, I, Red Deer I, Hillsdown, IV, Aitkensville II, Sion IV, Lake Talon, Crescent Lake II, Estevan III, Summerland, Nicola, Cranbrook, Port Stanley III, Dawson IV, Haileybury II, Delia III, Barrie III.
20. Treherne IV, Agincourt III, Birnam IV, Cape Magdalene, Yarbo IV, Minnedosa I, Dawson II, Haileybury III, Fort Vermilion III.
21. Cartwright IV, Treherne I, Waitefield III, Agincourt IV, Kakabeka Falls III, Lucknow IV, Birnam IV, Sion II, Campsie IV, Dawson I, Fort Vermilion I, Fort St. James.
22. Chicoutimi, Sion III, Lake Talon, Waseca, Quebec IV, Father Point III, Fort Vermilion I.
23. Treherne II, Lake Talon IV.
25. Waitefield IV, Renfrew, Sion, Melfort.
26. Hillview IV, Aweme IV, Chicoutimi, Yarbo III, Divide IV, Father Point III, Haileybury III, Gravenhurst IV.
27. Kakabeka Falls IV, Crescent Lake III, Divide IV, Fort Vermilion IV.
28. Sion IV, Chaplin IV, Quebec IV, Fort Vermilion II, Oliver.
29. Waitefield IV.
30. Waitefield IV, Sion IV, Fort Vermilion III.

Thunder recorded:

1. Hillview, Agincourt, Lost River, Princeton, Uplands.
2. Wesley, Westport, Princeton, Georgetown, Deer Park, Wooler, Point Clark, Paris, Lucknow, Madoc, Chicoutimi, London, Gravenhurst, Lindsay, Chicoutimi West, Shawinigan Falls, Disraeli, Lake Edward, Tobacco Plains, Summerland, North Nicomen, Chilliwack, Chilcoten, Parry Sound, Minnedosa, Quebec, Chatham, N.B., Port Arthur, Ottawa, Port Stanley, Southampton, Montreal, Toronto, Hope.
3. Aweme, Windsor, N.S., Harmattan, Crescent Lake, Chaplin, Divide, Pense, Glenbryan, Rathmullen, Yellow Grass, Kelvinhurst, Hydraulic, Annis, Rossland, Grand Forks, Salmon Arm, Nelson, Chilliwack, Fredericton, Charlottetown, St. John, N.B.
4. Chaplin.
5. Bruce Mines, Birnam, Pelee Island, Chilcoten.
6. Hydraulic, Chilcoten, Bella Coola.
7. Chilcoten.
8. Dunstable, Campsie, Chilcoten.
9. Gravenhurst.
10. Halkirk, Grand Forks, Salmon Arm, New Westminster, Chilliwack, Quebec, Montreal, Hope.
11. Wesley, Emsdale, Georgetown, Deer Park, Wooler, Point Clark, Morden, Beatrice, Agincourt, Renfrew, Paris, Bruce Mines, Aurora, Lucknow, Peterboro', Madoc, Clinton, Birnam, Brantford, Bloomfield, Pelee Island, Montague, Moncton, Lake Talon, Steveston, North Nicomen, New Westminster, Chilliwack Southampton, Toronto, Gravenhurst, Lindsay, Uplands, Hope.
12. Westport, Princeton, Treherne, Morden, Brome, Disraeli, Point Lepreaux, Windsor, N.S., Owen Sound, Annis, Crawford Bay, Rossland, Summerland, Steveston, Salmon Arm, Princeton, North Nicomen, Nicola, Golden, Chilliwack, Chilcoten, Alberni, Fredericton, Charlottetown, St. John, N.B., Ottawa, Port Stanley, London, Hope.
13. Westport, Athabasca Landing, Waitefield, Caldwell, Dunstable, Campsie, Chaplin, Divide, Scott, Glenbryan, Fort Vermilion.

14. Rapid City, Point Clark, Carberry, Paris, Lucknow, Birnam, Crescent Lake, Chilliwack.
15. Princeton, Georgetown, Waitefield, Agincourt, Brantford, Bardo, Pakan, Crescent Lake, Chaplin, Pense, Lost River, Crawford Bay, Clayoquot, Alberni, Port Stanley, Toronto, Bruederheim.
16. Oakbank, Renfrew, Montague, Brome, Shawinigan Falls, Yarbo, Salmon Arm, Montreal.
17. Gretna, Almasippi.
18. Kakabeka Falls.
19. Emsdale, Princeton, Georgetown, Almasippi, Paris, Harmattan, Okotoks, Dunstable Chaplin.
20. Hillview, Harmattan, Crescent Lake, Prince, Sydney.
21. Alberni, Bella Coola.
22. Kakabeka Falls, Port Arthur.
24. Lucknow.
25. Agincourt, Toronto.
26. Yarmouth.
27. Renfrew, Birnam, Pelee Island.
28. Dunstable, Hydraulic.
29. Dunstable, Last Mountain, Crescent Lake, Chaplin, Lost River, Muenster, Hydraulic, Annis, Crawford Bay, Salmon Arm, Nelson, Enderby.
30. Yarbo.

FORECASTS FOR SEPTEMBER, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1264. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	78	60	16	2	87 2
Saskatchewan	80	62	14	4	86 3
Manitoba	81	60	16	5	83 9
Lake Superior	113	61	31	15	71 7
Georgian Bay	122	87	30	5	83 6
Ottawa Valley	97	73	15	9	83 0
Upper St. Lawrence	97	73	15	9	83 0
Lower Lakes	122	92	25	5	86 7
Lower St. Lawrence	119	88	18	13	81 5
Gulf	118	87	25	6	84 3
Maritime Provinces West	119	87	25	7	85 6
Maritime Provinces East	118	82	29	7	81 8
Total	1264	915	262	87	82 8

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. OCTOBER, 1911. No. 10.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

TEMPERATURE.

The mean temperature of October differed very little from average in the province of British Columbia. On Vancouver Island, the coast-line and the Kootenays and Okanagan Valley the difference was negative, but in most cases did not exceed 1°, and, in fact, was generally negligible. Over a portion of the valley of the Lower Fraser and that of the North Columbia the normal temperature was exceeded by less than 1°.

At Edmonton there was very little difference from normal October temperature, but elsewhere in Alberta there appeared to be a deficiency of about 2°.

In the northern sections of Saskatchewan there was a positive difference from normal, amounting to 2° or less, while, nearer the boundary line, negative differences of equal value were reported.

The mean temperature of the province of Manitoba, as a whole, was a little more than 1° higher than normal, although there were local exceptions.

Although in New Ontario mean temperatures were in all instances less than average; and in the Ottawa Valley and many of the eastern counties, higher than average; yet these differences were in nearly all cases so small that that they may be neglected altogether.

In the counties on the Gulf of the St. Lawrence less than normal temperature was recorded, the difference in most instances amounting to about 1°; but along the river the average was exceeded by 1° at Quebec city and by 2° at Montreal. In the "Eastern Townships," however, temperature conditions were approximately normal.

Over the greater part of the Maritime Provinces the temperature of the month was from 1° to 2° lower than average.

The highest and lowest temperatures recorded in each Province during the month of October, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	91° at Crawford Bay on the 7th,	9° at Golden on the 28th.
Alberta,	84° at Cardston on the 9th,	—3° at Fort Vermilion on the 31st.
Saskatchewan,	87 at Chalgoness on the 9th,	—3° at Luseland on the 31st.
Manitoba,	85° at Swan River on the 9th,	3° at Swan River on the 31st.
Ontario,	78° at Lorne Park on the 9th.	4° at White River on the 31st.
Quebec,	72° at La Tuque on the 12th,	13° at Lake Edward on the 30th.
New Brunswick,	73° at St. Stephen on the 11th.	17° at St Stephen on the 30th.
Nova Scotia,	74° at Antigonish on the 24th,	16° at Truro on the 29th
P. E. Island,	66° at Charlottetown on the 23rd,	72° at Charlottetown (2) on the 29th.

PRECIPITATION

[illegible] of British Columbia [illegible] of rain, the difference from average [illegible] very large.

[illegible] western Alberta [illegible] but elsewhere in that pro[illegible] considerably greater.

[illegible] of Saskatchewan [illegible] of rain was recorded, but [illegible] districts precipitation was [illegible] in Manitoba also.

In New Ontario [illegible] a moderate deficiency [illegible] Ottawa Valley, but throughout [illegible] there was an excess of approximately [illegible]

[illegible] of Anticosti there was reported [illegible] lack of rain in the province of Quebec. [illegible] deficiency amounted to one-third of the average and in some instances to one-[illegible]

The precipitation [illegible] the Maritime Provinces was very light and almost amounted to a drought in some counties. The differences from average were very large. At [illegible] places, indeed, scarcely one-fifth of the normal amount was registered.

ATMOSPHERIC PRESSURE.

The [illegible] of the mean atmospheric pressure for October exceeded the normal throughout Canada. There was a difference from average of over 0·10 of an inch in Alberta and Northern British Columbia, but in other parts of the Dominion the departure was small, being generally about 0·05 of an inch. In parts of Northern Ontario the normal was just exceeded, the difference at White River being only 0·01 of an inch.

HIGH AREAS.

Nine areas of high pressure were charted; one first appeared in the Yukon Territory, one in Northern British Columbia, one in Northern Saskatchewan, two to the northward of Lake Superior and four on the coasts of the Northern Pacific States. Three of the areas passed over the Great Lakes and two each to the northward and southward respectively, while the two remaining areas were dispersed before reaching the Great Lakes. In nearly all instances the systems were of very moderate energy.

LOW AREAS.

Fourteen areas of low pressure were charted. Three first appeared in the Yukon Territory, one in Northern British Columbia, one in Northern Saskatchewan, two in the West Pacific States, one in the Western States, two in the Gulf of Mexico, one off the North Carolina coast and one in the Lower St. Lawrence Valley. A few only of the areas were of importance, the majority being of feeble energy, and at least a third of the whole number dispersed after having travelled only a comparatively short distance.

WINDS, OCTOBER, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of days of Calm.	Number of days of Strong Winds.	Number of days of Fresh Winds.	GENERAL DIRECTION.
BRITISH COLUMBIA.							
Victoria	3557	280	22		2	6	N.
Steveston	1787	328	29		5	8	N. & E.
ALBERTA.							
Edmonton	1425	436	23		4	4	
Calgary	1919	339	27		7	6	S.W.
SASKATCHEWAN.							
Battleford	6201	472	32	1	8	9	W.
Prince Albert	5591	183	13			1	Variable.
MANITOBA.							
Winnipeg	7711	481	29		11	12	W.
KEEWATIN.							
The Pas	5841	306	23		7	7	W.
ONTARIO.							
Port Arthur	6045	403	42	3	3	11	N.W. & W.
Parry Sound	6939	461	27		8	5	S.W.
Southampton	7424	507	40	1	5	13	S.
Woodstock	5688	465	25		6	15	S.W.
Toronto	9396	700	53	1	8	9	S.W. & W.
QUEBEC.							
Quebec	8561	602	31	3	9	12	S.W.
Father Point	11302	822	49	8	13	9	W. & N.W.
MARITIME PROVINCES.							
Fredericton	5788	414	27		5	14	N.W.
St. John	8981	695	30	6	10	5	N.W.
Pt. Lepreaux	10611	710	42	7	17	5	N.W.
Halifax	8246	503	31	2	6	17	N.W.
Flat Point	11456	784	52	9	12	4	N.& S.W.
Charlottetown	6077	373	23		6	12	S.W. & N.W.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA OCTOBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dew point.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from	Precipitation: Amount.	Difference from average.	Heaviest in [illegible].	Days with [illegible]	No. of [illegible] days.	[illegible]	[illegible]	[illegible]
				in.	in.	in.	in.																																	
British Columbia																																								
Alberni (Beaver Creek)	49 15	124 49	300					51.4	0.5	16	74.0	15	30.0	26, 28	22.5																		3.47	2.30	1.77	9	22	0	0	0
Agassiz	49 14	121 31	52					50.9	+ 2.2	21	71.0	10	30.0		27 28.5																		3.67	1.93	0.95	12	19	0	0	0
Atlin	59 35	133 38	2240	30.01	30.68	29.25	1.43	36.9		6	53.5	12	17.0	31	10.0			8	13	2	8	1	11	21	0	0	2	17	62	8.7	24.0		0.50		0.11	9	22	3	0	7
Barkerville	53 2	121 35	4180	30.07	30.56	29.55	1.01	37.6	+ 0.9	23	68.0	8	11.0	25	18.1			4	4	0	0	0	1	0	7	0	0	54	62	2.7	10.0		0.84	2.04	0.35	4	27	0	0	0
Bella Coola	52 40	126 54	150					44.5	1.0	12	66.0	2	22.0	30	21.3																		4.71	4.47	1.62	8	23	0	0	[illegible]
Babine Lake	55 38	126 26																																						
Boswell	49 19	116 11																																						
Chilcoten (Big Creek)	51 40	123 0	3100					39.1		8	67.0	8	12.0	18, 31	25.0																		0.10		0.10	1	30	0	0	[illegible]
Cranbrook	49 30	115 50						40.2		3	85.0	8	10.0	28, 29	32.6																		0.17		0.12	2	29	0	0	[illegible]
Clayoquot	49 11	125 47	40					51.4	0.6	12	60.0	4	33.0		26 16.1																		9.49	1.26	2.75	10	21	0	[illegible]	
Cowichan (Tzouhalem)	48 25	123 42	170					49.0		5	65.9	7	28.6		26 19.9																		1.28		0.59	10	21	0	0	
Chilliwack	49 10	121 57	21					50.5	0.5	13	73.0	7	27.0		28 21.0																		1.40	3.79	0.45	9	22	0	0	4
Crawford Bay	49 45	116 45	2000					45.7		3	91.0	7	23.0	27, 28	26.7																		0.15		0.25	4	25	0	0	
Enderby	50 32	119 7	1180					42.9		3	74.0	8	14.0	27, 31	29.9																		0.20		0.17	2	25	0	0	
*Ft. St. James (Stuart's Lake)	54 28	124 12	2280					37.8		18	63.0	7	9.0	26, 29	20.0																		0.65	0.58	0.17	1	25	0	0	
Fairview	49 11	119 36																																						
Fruitvale	49 9	117 31																																						
Glacier	51 14	117 29	4072					36.8		9	55.0	10, 13	19.0	26, 30	14.1																		0.20		0.11	4	27	0	0	
Golden	51 16	116 55	2550					38.0		10	67.0	10, 11	9.0	28	26.2																		1.22		0.50	4	27	0	1	
Grand Forks	49 2	118 27						43.4		1	78.0	8	15.0	30	28.7																		0.08		0.04	3	28	0	0	
Greenwood	49 5	118 49																																						
Holberg	50 39	128 18						47.4		3	79.0	9	23.0	27	21.0																		12.67		1.90	13	18	0	0	
Hedley	49 35	120 10	1771					46.5		6	79.0	9	23.0	27	24.0																		[illegible]		0.12	3	28	0	0	0
Hedley (Nickel Plate)																																								
Hope	49 23	121 25						49.8		2	72.0	8	31.0	28, 30	18.7																		[illegible]		[illegible]	7	24			
Ikeda Bay	52 17	131 7	5					47.8		4	58.0	3	33.0	28	5.8																		[illegible]		0.96	12	19		0	
Kamloops	50 41	120 29	1245	30.05	30.57	29.49	1.08	48.0	0.5	19	87.8	8	19.0	31	24.8		70	4	0	1	3	10	6	7	11	13	2	9	62	4.2	17.0	8 SW	0.03	[illegible]	[illegible]	1	[illegible]	[illegible]		
Ladner	49 5	123 4						49.6		9	63.0	12, 14	26.0	27	20.8																		2.70	[illegible]	[illegible]	8	23	0		
Massett, Q.C.I	53 58	132 9	30					48.0	− 1.6	13	62.0	13	33.0	21, 28	10.9																		3.37	[illegible]	[illegible]	17	14	0		
*a*Nanaimo	49 10	123 37	125	30.01	30.36	29.31	1.02	48.9	0.6	11	65.2	1	32.0	29, 30	13.1		92	5	10	0	0	1	7	0	3	2	10	30	62	5.1	20.0		1.11	[illegible]	[illegible]	8	[illegible]			
Nicola Lake	50 9	120 39	2120					47.7	3.0	16	76.0	9	19.0	29	24.5																		0.33	[illegible]	[illegible]	1	[illegible]			
North Nicomen	49 12	122 2	59					51.2	0.6	18	72.0	7	31.0	28	18.1																		[illegible]	[illegible]	[illegible]	7	21			
New Westminster	49 13	122 54	330					50.3	− 0.1	21	71.1	7	33.1	26	15.1																		1.90	2.20	0.61	9	22	0		6
Nelson	49 29	117 21	1760					45.0		9	67.0	11	22.0	30	21.0																		0.82		0.25	6	25	0	0	0
Needles	49 10	118 9						45.0		2	63.0	11, 15	23.0	28	24.2																		0.16		0.10	1	30	0	0	0
Okanagan Mission (Kelowna)	49 52	119 29	1200					44.1	1.3	12	72.0	16	20.0	30	22.7																		0.18	0.48	0.10	2	29	0	0	0
Princeton	49 29	120 29	1650					43.2	− 2.8	17	80.0	8	15.0	28	31.3																		0.27	0.52	0.22	3	28	0	0	0
Penticton	49 29	119 35						46.7		5	73.5	7	22.5	28	21.9																		0.23		0.11	3	28	0	0	0
Pemberton Hatchery	50 20	122 33						45.6		1	64.0	1	25.0	30	19.7																		0.16		0.29	3	28	0	0	0
Prince Rupert	54 18	130 18	170	29.97	30.43	29.02	1.41	48.4		1	66.0	12	33.0	27	12.2		81	7	15	4	1	5	0	13	6	6	2	1	30	2.6	10.0		7.49		2.10	14	17	0	0	1
Quesnelle	52 59	122 30	1700					41.7	1.3	16	75.0	8, 9	13.0	31	22.2																		0.59	0.77	0.17	3	28	0	0	0
Revelstoke	51 0	118 6	1476					42.6		12	65.0	7, 10	20.0	28, 31	21.7																		0.46	3.75	0.13	3	28	0	0	0
Rossland	49 5	117 48	3400					41.9		8	61.5	8	26.5	28, 31	13.4																		0.61		0.32	4	27	0	0	1
Ruskin (Stave Falls)	49 16	122 23	125					51.3		2	72.0	8	31.0	28, 31	18.2																		2.62		1.02	7	24	0	0	0
Salmon Arm	50 42	119 35	1152					44.3		6	74.0	8	18.0	28	24.2																		0.33		0.32	2	29	0	0	0
Salmon Arm (Ex. Farm)								44.8		1	76.0	7	19.0	28	27.8																		0.01		0.01	1	30	0	0	0
Steveston (Garry Point)	49 21	123 17						46.8	1.2	16	69.0	8	27.0	26, 28	16.4																		4.24	2.01	0.35	11	20	0	0	3
Swanson Bay	50 37	126 53						48.6		4	65.0	1	33.0	27	9.6																		25.77		8.56	12	19	0	0	0
Summerland	49 57	119 0	1100					46.3	—	5	72.0	7, 8	23.0	28	20.6																		0.13	—	0.13	1	30	0	0	0
Sooke	48 11	123 11	25																																					
Stewart	56 1	130 1	215					41.7	—	2	56.0	12	21.0	28, 29	9.9																		6.23		1.30	17	14	0	0	0
Tobacco Plains (Elko)	49 1	115 5	2684					43.3	− 0.9	15	66.1	7-11	17.0	27, 29	20.3																		0.36	0.62	0.33	2	29	0	0	1
Triangle Island	50 52	129 5	680	30.07	30.32	29.33	1.17	45.6	—	2	52.0	5	10.0	16, 17	5.5			9	23	11	3	1	12	1	22	2	7	0	62	13.8	18.0	7 SW	10.70		3.00	21	10	0		25

*a*Tranquille	50 41	120 29		28·77 29·22 28·11 1·11	47·7 — 1 81·0 8 19·0 28 21·6	68	3 0 23 13 10 3	1 1 3 5 0 62		0·02 0·02 1·30 0 0 0
Vernon (Coldstream Ranch)	50 14	119 15	1575		45·8 + 0·6 18 71·0 8 19·0 28 31 24·1					0·67 0·61 0·07 1·30 0 0 0
Victoria	48 24	123 19	85	30·07 30·12 29·47 0·95	50·0 + 1·5 19 66·5 7 33·5 29 14·5	83	6 7 20 3 3 5	9 7 5 9 2 62	5·6 18·0 9SE	0·61 1·65 0·18 7·24 0 0 5
Vancouver	49 17	123 5	136	30·09 30·41 29·51 0·87	49·7 + 1·0 11 73·2 7 33·0 29 12·7	87	6 9 1 1 18 1	0 2 8 5 23 62	2·1 10·0 9SE	2·21 −3·60 0·73 12·19 0 0 8
Winter Harbour	50 32	128 3								
Wilmer	50 31	116 11	…		— 2 12·0 29					0·37 0·22 2·20 0 1 0
YUKON :—										
Carcross	60 11	134 31	2171		37·4 — 5 56·6 12 19·0 25 12·5					1·12 0·85 5·26 0 0 0
Dawson	64 4	139 20	1200		29·7 10 55·0 10 4·0 30 31 11·6	…	6 1 8 0 1 4	11 1 0 0 31 62		1·60 0·8 7·24 0 0 0
ALBERTA—										
Athabasca Landing	51 4	113 17	1650		38·3 — 11 77·0 10 0·0 31 27·2		4 2 3 1	2 1 7 8 0 31		0·78 0·31 2·20 0 0 0
Alix	52 21	113 10			39·4 6 72·0 9 11·0 27 29 22·1		1 0 0 2	6 6 1 11 1 31		0·71 0·24 5·26 0 0 1
Banff	51 10	115 34	4542	30·15 30·71 29·69 1·02	37·1 2·3 7 61·5 7 6·8 26 23·4		0 0 5 8 5	1 18 5 5 17 62		0·56 0·58 0·16 4·27 2 0 0
Blairmore	49 40	114 30	4225		2 77·2 8 2·4 25					0 0 0
Calgary	51 2	114 2	3389	30·06 30·60 29·52 1·08	40·4 1·7 27 74·0 7 9 11·0 25 27 22·5		4 7 6 2 6	1 1 7 27 2 62		0·51 0·02 0·31 5·26 1 0 0
Cardston	49 12	113 18			44·5 — 7 81·0 9 5·0 31 36·9					1·37 0·57 5·26 0 0 0
Didsbury	51 40	114 8	3300		41·7 10 76·0 8 9 10·0 25 23·0		0 2 1 3	1 9 2 11 2 31		0·92 0·62 3·28 0 0 0
*a*Dunvegan	55 56	118 35	1305		10·5					
Daysland	55 52	112 17								
Delia	51 38	112 25			39·1 1 71·1 9 10·5 25 21·5					0·82 0·60 3·28 2 0 0
Edmonton	53 33	113 30	2158	30·05 30·67 29·53 1·21	41·7 0·5 29 79·0 9 11·0 25 21·6		5 1 5 1 5	12 11 13 9 2 62		0·51 0·25 0·19 2·29 1 0 2
Eckville	52 23	114 22								
Endiang	51 58	112 6	2795		38·3 2 77·0 7 3·4 31 22·7					0·15 0·25 2·29 0 0 0
Fort Vermilion	58 27	116 3			26·7 — 7 76·9 9 3·5 31 25·6					0·15 0·09 3·28 13 0 8
Gleichen	50 59	112 54	2952		40·4 9 76·0 7 8 10·0 25 26·5					0·65 0·45 2·29 0 0 0
Gill Edge	52 59	110 43			47·5 — 3 75·0 12 13·6 22 26·4					0·85 0·75 2·29 0 0 0
Hillsdown	52 14	113 29	2806		39·6 8 74·0 9 10·0 25 22·7		1 1 0 11	6 5 0 31 4 62		0·97 0·41 5·26 1 0 1
High River	50 35	113 53	3394		39·3 9 78·0 9 7·5 25 27·2					0·78 0·41 4·27 0 0 0
Harmattan	51 45	114 23	3500		37·7 1 77·0 8 10 4·0 25 30·7					0·95 0·34 3·28 1 0 0
Halkirk (Emsburg)	52 17	112 10			39·5 — 5 70·0 7 9 9·0 31 19·9		1 5 0 6	11 12 3 21 0 62		0·64 0·35 4·27 2 0 1
Lethbridge	49 41	112 51	2961		44·6 10 83·0 10 13·3 25 27 25·2					0·41 0·27 4·27 0 0 0
Lethbridge (Exp. Farm)	49 43	112 51			43·0 4 79·4 9 9·7 25 24·8					0·57 0·21 5·26 0 0 0
Lacombe	52 58	113 41	2783		38·8 5 80·5 9 8·7 25 27·8					0·62 0·25 5·26 0 0 0
Lawrence	50 46	113 26			37·7 5 78·0 7 8 2·0 25 31·3		5 0 0 10	0 0 1 1 11 31		0·39 0·20 3·28 0 0 0
Lunnford	51 33	111 19			36·9 — 2 78·0 9 5·0 27 28 29·4					0·46 0·11 2·29 1 0 2
Loveland	52 30	111 59			40·2 2 77·0 7 9 4·0 31 25·8		3 3 2 7	8 12 12 15 0 62		0·63 0·16 3·28 0 0 0
Medicine Hat	50 4	110 37	2161	30·02 30·72 29·50 1·22	44·6 1·5 26 80·0 9 11·0 27 22·2		7 1 1 3 7	15 15 9 2 9 62		0·45 0·07 0·11 7·21 1 0 0
Macleod	49 44	113 24	3128		43·8 22 78·0 9 14·0 25 27 23·0					0·33 0·15 0·11 4·27 0 0 0
Moose (Tyrol)	51 45	110 39								
Peace River Crossing	56 15	117 15			38·8 4 79·0 7 11·0 27 25·4					1 0 0
Pembina	54 12	114 0								
Pakan (Victoria)	54 0	112 31			38·3 7 75·0 8 9 6·0 25 26·7		7 7 1 0	7 9 10 9 8 58		0·52 0·30 2·29 2 0 3
Pincher Creek	49 0	114 4	3750							
Red Deer	52 16	113 49			38·4 3·0 10 78·0 9 7·0 25 27·4		4 0 2 5	6 3 0 7 0 31		0·78 0·52 4·27 1 0 0
Spirit River	55 40	118 47								
Sunglial	50 6	112 34			41·2 4 77·0 7 4·0 31 25·6					2·75 1·60 2·29 0 0 0
Threehills Creek	51 30	115 14								
Wetaskiwin	52 58	113 23	2180		39·0 9 75·0 9 6·0 31 26·3					0·25 0·25 1·29 0 0 0
Waitefield	53 29	111 38	2000		39·4 7 78·0 8 1·0 31 24·6		9 4 10 8	4 6 12 21 19 93		0·59 0·54 5·26 11 0 4
SASKATCHEWAN—										
Battleford	52 41	108 20	1620	30·02 30·70 29·56 1·14	42·2 + 1·6 20 82·0 8 8·0 31 23·8	89	6 3 0 13	2 5 7 28 29 93		0·11 −0·33 0·11 1·30 0 0 1
Broadview	50 23	102 33	1960		41·1 7 79·0 11 7·0 31 26·2					0 0 0
Brownlee	50 45	106 0								
Chaplin	50 26	106 39	2202		38·9 1·8 24 84·0 9 7·0 26 27·0		3 3 2 5	0 3 3 12 0 31		1·20 0·87 1·03 5·26 3 0 0
Cannington Manor	49 23	102 2	2064							
Crescent Lake	50 59	102 25	1658		39·1 7 78·8 10 6·3 31 22·9					0·97 0·74 6·25 4 0 0
Cumberland House	53 56	102 16			38·1 — 1 72·0 10 4·0 31 22·5					0·69 — 0·36 2·29 0 0 1
Chalgoness	52 32	104 13			41·4 — 1 87·0 9 6·0 30 24·1					0·55 0·40 2·29 0 0 2
Duck Lake	52 51	106 20								
Estevan	49 12	103 4	1858		39·9 — 2·0 10 75·0 9 0·0 31 19·5		2 3 1 0	3 3 6 4 9 31		1·49 1·27 2·29 2 0 1
East End	49 31	108 49								
Foxleigh	50 37	104 29								
File Hills	51 4	103 31								
Grenfell (Brownhill)	50 23	102 53	1957							
Glenbryan (Larchmount.)	49 54	107 27			39·8 — 1 79·0 10 7·9 27 27·5		2 9 2 2	0 8 14 25 0 62		1·49 1·00 2·29 1 0 0
Humboldt	52 12	109 5			42·8 — 3 82·0 11 26·0 30 19·0					1·50 1·30 1·30 0 0 0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA—OCTOBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometer.

STATION	Latitude N.	Longitude W.	Elevation above sea level in feet	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Temperature: Difference from average	Temperature: Years observed	Temperature: Highest	Date	Temperature: Lowest	Date	Mean daily range	Mean temperature of dew point	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations	Wind: Mean miles per hour	Highest day's velocity	Date and direction	Precipitation: Amount	Difference from average	Heaviest fall in one day	[illegible]	[illegible]	[illegible]	[illegible]
SASKATCHEWAN—*Con.*	° '	° '		in.	in.	in.	in.																																
Hubbard (Drumague)	51 5	103 21																																					
Indian Head	50 28	103 40	1921					38.6	1.2	20	78.0	9	2.0	31	22.0					5	10	4	10	11	6	5	31	8	93	11	41	3 NE	1.95	−1.12	1.62	5 26	0	0	0
Kamsack	51 30	101 52																																					
Kelvinhurst	49 21	109 29						40.0		1	77.0	10	10.0	29	25.8																		0.22		0.22	1 30	0	0	0
Lloydminster	53 18	110 0						38.2		7	79.4	9	5.0	21	25.0																		0.32		0.26	1 27	0	0	0
Luseland	52 5	109 24						38.2		1	81.0	9	3.0	31	28.5																		0.06		0.06	1 30	1	0	3
Lost River								39.6		1	84.0	10	1.0	30	21.4																		1.09		0.30	6 25	1	0	0
Moose Jaw	50 24	105 35	1759	30.05	30.84	29.63	1.22	40.2	0.0	16	84.0	9	9.0	31	24.6		85			10	8	6	1	2	11	10	22	20	93				1.54	−1.12	0.93	5 26	0	0	0
Moosomin	50 0	101 37	1881					39.5		9	75.0	8	7.0	31	18.6					0	0	8	4	6	1	1	8	0	31				2.57		2.40	7 29	0	0	0
Muenster (St. Peter's Monastery)	52 0	105 0	1870					39.9		6	78.0	9	6.0	31	19.4					0	5	0	2	0	4	1	19	0	31				0.35		0.35	1 30	1	0	1
Melfort	52 47	104 30						38.2		3	83.0	9	2.0	31	20.8																		1.10		0.50	9 22	1	0	0
Maple Creek (Divide)	49 55	109 28						38.3		3	75.4	10	10.8	25	21.3																		1.28	—	0.45	5 26	1	0	1
Onion Lake	53 52	109 59						40.0		4	77.0	9	0.0	30	31.7					6	5	5	3	1	0	1	10	0	31								0	0	0
*Oliver	51 46	108 10						38.2		2	82.0	8 9	1.0	27	28.6																						6	0	1
Pense (Gatesgarth)	50 20	105 0	1879					38.0		13	82.0	8	4.0	31	29.7					2	0	6	1	0	0	12	10	0	31				1.55	−1.16	1.38	4 27	0	0	0
Prince Albert	53 10	106 0	1432	30.01	30.79	29.59	1.20	40.0	1.2	27	80.5	8	5.0	30	21.8		85			9	2	7	2	5	5	6	9	17	62				0.04	−0.82	0.02	3 28	0	0	2
Prince (Meota)	51 0	108 20	1700					40.1	—	4	82.0	8	5.0	27	25.3																		0.06		0.04	2 29	0	0	2
Pilger	52 25	105 9						37.1		1	80.0	9	1.0	30	21.3																		0.21		0.12	6 25	0	0	0
Qu'Appelle	50 30	103 47	2115	30.01	30.70	29.66	1.04	39.1	1.9	27	79.0	9	7.0	31	19.2		87			3	4	4	7	8	8	10	18	0	62				2.50	1.60	1.70	6 25	0	0	3
Quill Lake	52 4	104 14	1690					36.9		1	75.0	8	1.0	30 31	22.8																		0.70		0.62	2 29	0	0	0
Regina	50 27	104 37	1885					38.7	0.1	25	79.0	9	5.0	31	22.6																		1.55	0.89	1.23	6 25	0	0	0
Rathmullen	51 20	108 57						38.7		2	79.8	9	4.2	27	28.6																		0.03		0.03	1 30	0	0	0
Rosthern	52 40	106 20	1657					38.2		1	78.3	9	4.5	30	25.6																						0	0	1
Swift Current	50 20	107 45	2439	30.08	30.81	29.61	1.23	41.1	1.9	25	79.0	10	11.0	21	21.6		82			5	0	8	2	8	11	23	24	11	93				0.18	−0.23	0.16	6 25	1	0	0
Saskatoon	52 15	106 30	1571					39.5	1.9	11	74.0	10	6.0	27	27.3																		0.00		0.00	0 31	0	0	0
Strassburg	51 5	104 56						34.2		2	78.0	9	1.0	31	21.5																		1.18		1.16	2 29	0	0	0
Scott (Ex. Farm)	51 59	109 30						38.9		1	80.5	8	4.7	31	26.3																		0.11		0.07	2 29	0	0	0
Stanley Mission	55 27	104 37																																					
The Pas	53 49	101 15	860	30.04	30.74	29.41	1.33	38.3		2	79.0	9	3.0	31	16.4		96			10	0	11	7	4	1	23	4	15	93				0.15		0.10	8 23	1	0	0
Waseca	53 6	109 29						39.3		4	76.0	9	4.0	31	23.8					4	0	3	2	0	3	16	6	0	31								2	0	0
Yorkton	51 11	102 29						39.5		2	79.0	10	5.0	31	23.0																		2.04		1.90	3 28	0	0	0
Yarbo (Fairfield)	50 39	102 4						40.6		3	78.0	10	8.0	31	23.2					3	2	4	5	2	1	2	13	2	31				1.80		1.57	3 28	5	0	4
Yellow Grass	49 49	104 9						39.5			78.0	9	1.0	31	22.7																		2.12		2.10	3 28	0	0	0
MANITOBA—																																							
Almasippi	49 14	99 20						42.8	+2.0	9	78.0	8	8.0	27	19.4																		2.45		2.01	5 26	0	0	0
a Aweme (St. Alban's)	49 42	99 33	1180	28.79	29.44	28.13	1.01	41.8	+1.4	27	77.0	8	10.0	27	19.9																		2.82	+1.76	1.88	7 24	1	0	0
Brandon	49 51	99 57	1176					41.3	1.3	21	76.5	9	7.0	27	19.6			5	1	1	23	1	5	0	9	17	14	20	93	1	11		1.60	0.94	1.10	2 29	2	0	0
Berens River	52 18	97 23	710																																				
Birtle	50 25	101 4	1703																																				
Carberry	49 52	99 20	1258							7																							1.80		1.80	1 30	0	0	4
Carman	49 31	98 0	872					48.2		8	73.0	9	13.0	30	30.9																		1.14		0.48	6 25	0	0	0
Cypress River	49 33	99 3	1232					42.2	—	7	73.0	10	10.0	27	19.7																		2.35		1.15	7 24	0	0	0
Dauphin	51 8	100 2	957					42.1		5	79.0	10	9.5	30	20.0																		1.65		0.90	2 29	0	0	0
Hillview	49 55	100 33	1400					40.8	+1.8	26	77.0	9	12.0	27	18.5			1	1	7	12	15	3	6	18	2	28	2	93				2.46	1.36	2.22	5 26	1	0	6
Minnedosa	50 15	99 50	1690	30.04	30.66	29.32	1.34	39.9	−0.7	27	71.7	9	8.0	27	18.3			5	1	1	2	5	0	0	1	2	15	36	62				1.86	−0.81	1.63	6 25	1	0	3
Morden	49 11	98 6	978					42.6		7	79.0	9	10.0	27	22.0					10	1	0	10	3	10	7	5	12	62				1.60		1.50	5 26	0	0	2
Moose Horn Bay (Aitkenville)	51 15	99 33						40.7	—	2	71.4	9	7.0	30	16.9					16	2	4	3	9	1	9	4	8	56				2.31		1.42	11 20	5	0	3
Ninga	49 14	99 51	1649					42.5		2	70.4	9	7.0	31	21.9																		1.33		0.63	5 26	0	0	0
Oakbank	49 57	96 42	800					41.7	+1.5	16	68.0	12	12.0	30	15.0					6	0	4	1	9	2	5	7	0	31				1.33	−0.10	0.96	6 25	0	0	0
Pipestone	49 31	100 58	1400					42.7		9	76.0	10	13.0	27	23.7																		2.23		2.13	2 29	0	0	2
Portage la Prairie	49 57	98 17	830					40.6		21	71.0	8	10.0	31	19.4																						0	0	0
Portage la Prairie (2)	49 56	98 17						42.4	0.0	4	75.0	9	15.0	27	19.5																		2.28		1.08	6 25	0	0	0

MANITOBA—*Concluded.*																																									
Pierson	49	11	101	5	1531					41.4	—	7	73.0	10	11.0	27	28	23.6																1.98		1.40	3	28	0	0	0
Stony Mountain	50	40	97	11	803					41.2	+0.[illegible]	31	72.0	7	7.0		26	23.4			11	1	2	4	20	2	9	11	6	60				1.60	0.61	1.35	3	28	0	0	1
Swan River	52	6	101	15	1112					40.6		4	85.0	9	3.0		31	22.8																1.12		0.52	4	27	0	0	0
Treherne	49	36	98	40	1212					42.5	+0.7	16	75.0	8	13.0	27	31	17.2																2.30	1.12	1.80	9	22	2	0	4
Virden	49	51	100	35	1441					46.8	—	6	76.0	16	14.0		26	31.5																					0	0	0
Winnipeg	49	53	97	7	760	30.05	30.58	29.29	1.29	42.9	+1.4	37	73.0	8	13.3		31	16.7	4	1	9	1	3	2	17	10	7	10	3	62				1.84	0.32	1.15	9	22	2	0	1
ONTARIO—																																									
Alton	43	51	80	5	1256					43.1	...	25	67.2	16 20	19.9		28	21.8	3	1	21	5	16	2	11	6	26	6	0	91	II	IV	4W	4.30	+1.45	1.28	10	21	0	0	4
Aurora	43	57	79	21	886					45.6		4	68.4	10	25.0		28	20.1																3.81	1.20	1.39	9	22	0	0	0
Agincourt	43	47	79	16	590					48.2	−1.4	15	72.5	4	25.2		28	16.9			10	7	20	5	2	3	22	22	2	93				3.60	0.70	1.41	8	23	0	0	5
Barrie	44	23	79	41	839					45.8	−1.6	33	66.0	4	28.5		28	14.1	6	4	8	7	10	11	4	10	5	18	20	93	II	IV	4W	1.41	1.69	1.21	18	13	0	0	4
Beatrice	45	8	79	20	800					44.4	+1.0	35	68.0	10	23.0		28	19.7	7	11	6	1	0	5	9	11	4	9	18	93				5.71	2.30	1.56	10	21	1	1	6
Bruce Mines	46	18	83	55	595					45.2	+0.8	13	69.0	12	17.0		30	19.8																3.44	0.15	1.62	11	20	0	2	0
Birnam	43	2	81	55	600					47.2	1.3	28	66.1	4	28.0		27	16.4			10	11	15	3	4	5	6	5	3	62				4.34	1.45	0.85	8	23	1	1	1
Brantford	43	10	80	21	750					47.6	−0.3	30	70.0	4	26.0		27	19.9																3.84	1.31	1.10	7	24	0	0	5
Bloomfield	43	59	77	21	260					47.9	−3.5	11	70.0	5	25.0		28	17.3																2.04		0.75	7	24	0	0	0
Bancroft	45	1	77	50						44.4	+1.0	20	71.0	10	17.0		31	22.7																	—	—			0	0	0
Copper Cliff	46	30	80	59						43.3	—	5	69.0	10	18.0		30	17.7																3.70	—	1.05	10	21	0	0	0
Clinton	43	32	81	37						45.7	—	9	66.0	4	29.0		8	16.9			11	10	17	2	5	3	14	0	0	62				4.38		0.95	12	19	0	1	2
Coldwater	44	38	79	40	600					44.2	−1.2	24	73.0	2	20.0		29	27.6																1.32	−1.24	1.31	7	24	0	0	0
Cottam	42	7	82	45	606					47.9	−2.9	23	70.0	15	20.0		27	22.8			22	3	10	4	12	2	8	1	0	62				3.64	−0.92	0.66	8	23	0	0	0
Chatham	42	23	82	12	595					50.0	−0.9	25	75.0	15	22.0		28	21.6																3.84	−1.30	1.05	8	23	0	0	0
Collingwood	44	31	80	2						46.3	−3.2	17	70.0	10 20	25.0		28	19.3																5.92		2.80	6	25	0	0	0
Cochrane	49	2	83	0	946										35.0		7 8	15.0																							
Elora	43	41	80	24	1274					45.9	+1.6	14	69.0	15	23.0		28	20.7																3.56	−0.75	1.06	10	21	0	0	0
Gravenhurst	44	54	79	20						44.4	−0.7	11	66.0	10	25.0		14	19.4	5	1	13	3	11	14	11	6	5	12	18	93	V	V	4W	5.51	2.20	1.38	11	20	0	0	1
Guelph	43	33	80	16	1050					47.0	+0.7	25	67.0	15	26.0		28	16.4																2.63	0.44	0.90	7	21	0	0	2
*a*Grimsby	43	13	79	36						50.7	—	2	75.0	5	28.0		28	16.6																3.55		1.00	9	22	0	0	0
Haileybury	47	29	79	39	687	30.07	30.36	29.30	1.06	42.6	+0.1	17	71.2	10	13.0		29	16.7			11	2	1	2	8	8	13	7	10	62	II	IV	4W	3.54		1.34	10	21	5	[illegible]	[illegible]
Hamilton	43	16	79	54	303					49.9		36	72.0	1	35.0		7-8	15.0																2.88	−0.49	1.23	4	27	0	0	0
Haliburton	45	1	79	8	1050					49.8	+5.3	23	69.0	9 10	20.0		28	21.0																8.20	5.59	2.00	7	21	1	1	
Huntsville	45	19	79	8						45.5	—	5	73.0	9 10	25.0		30	20.3																					0	0	0
Kenora	49	48	94	32	1102					39.6	—	10	64.0	9	8.0		31	14.9																					0	0	0
Kakabeka Falls	48	29	89	26	912					38.9		3	74.0	9	8.4		31	22.6																1.49		0.31	10	21	3	0	0
Kingston	44	13	76	29	285	30.10	30.46	29.74	0.72	48.8	−0.4	36	72.2	4	26.6		28	14.2			7	10	3	8	1	9	9	14	1	62				2.51	0.61	1.06	14	15	1	0	7
Kinmount	44	45	78	38	920					42.9	−3.5	12	66.0	4 10	19.0		27	21.8																5.22		1.74	8	23	0	0	0
Lucknow	43	56	81	30	908					45.1	−2.3	25	68.7	16	26.9		27	17.1																5.20	1.21	0.74	15	16	0	3	2
Lake Talon	46	15	78	48						43.0	—	17	66.5	10-16	15.0		30	18.4																3.78	−0.83	0.76	13	18	1	0	5
London	42	59	81	13	808	30.06	30.40	29.61	0.79	47.6	−0.9	27	70.0	4	28.0		28	19.3	5	11	0	40	7	16	0	5	7	18	0	93				4.30	1.35	1.00	9	22	0	0	0
Lakeside Home	43	40	79	21						50.1	—	6	72.0	4	32.0		28	12.5																					0	0	
Lorne Park	43	32	79	37						50.3	—	3	78.0	9	25.0		26	20.9																2.84		1.10	6	25	0	0	0
Lindsay	44	20	78	45	872					46.8	+2.1	32	70.6	1	26.5		27	18.1	5	5	7	8	5	3	9	6	9	13	33	93	II	IV	4NW	5.68	3.05	1.44	12	19	0	0	8
Lakefield	44	25	78	15	850																																				
*Midland	44	44	79	53	750					—		4	—				—																	5.40	2.33	1.25	8	23	0	0	
Madoc	44	30	77	29	575					46.7		7	72.0	4	23.0		28	18.4																4.45		2.30	10	20	1	0	0
Montague	44	56	75	57						46.5	—	2	73.0	4	25.0		28	19.7																2.64	−0.31	0.80	10	21	1	0	0
Montreal River	47	8	79	29						39.9		1	65.0	11	12.0		30	20.6																2.70		1.30	8	23	0		
Matheson	48	29	80	26						38.1	—	1	71.0	10	4.0		30	22.5			4	4	1	2	0	5	27	17	2	62				3.44		1.05	10	21	1	0	0
*North Bruce	44	23	81	25						45.4	2.2	24	68.0	16	32.0	18	27																	5.28	2.65	1.06	18	13	0	0	1
North Gower	45	8	75	43						50.8	—	9	75.0	6	20.0		27	26.1																					1		3
Owen Sound	44	34	80	55	597					—	—	33	—	—	—		—	—			21	0	1	0	37	2	0	1	0	62									0	0	0
Orillia	44	37	79	24	775					46.5	0.1	17	68.0	12	28.0		29	18.7			3	0	0	1	10	9	1	7	0	31				5.29	+2.00	1.23	10	21	0	0	0
Ottawa	45	26	75	42	294	30.06	30.42	29.44	0.98	46.8	+0.2	28	70.0	4	24.0		28	17.0			4	5	12	1	3	8	18	8	0	62				2.21	0.04	0.91	10	21	1	0	0
Port Arthur	48	27	89	12	611	30.04	30.37	29.30	1.07	41.3	−0.3	31	72.0	8	13.0		31	15.6	6	5	13	3	9	1	3	1	17	10	5	62				1.65	0.88	0.60	7	24	1	0	2
Port Stanley	42	40	81	13	592	30.09	30.43	29.66	0.77	48.2	−0.6	36	65.1	4	28.4		27	16.2	6	7	0	12	13	3	4	12	10	6	7	62				1.23	1.45	1.32	15	16	0	0	6
Port Dover	42	47	80	12	635					47.9	−0.5	35	70.5	4	25.0		28	16.3			4	4	5	3	4	2	8	1	0	31				1.41	−1.93	0.92	15	16	0	0	0
Port Burwell	42	39	80	55	592					49.2	—	8	67.5	4	28.0		28	15.3																3.33	—	0.98	8	23	0	0	0
Parry Sound	45	19	80	0	635	30.08	30.36	29.44	0.92	45.6	−0.2	35	66.0	10	25.0		30	15.5			4	17	1	9	1	11	3	10	3	62				5.37	+1.63	0.91	18	13	1	2	
Point Clark	44	5	81	44	595					—		41					—				15	4	10	7	6	10	8	2	0	62				3.23	−1.05	1.75	5	26	0	2	
Pelee Island	41	50	82	35	585					54.8	+0.8	31	77.0	16	28.5		26	13.2																4.33	2.40	1.26	7	24	0	0	0
Paris	43	12	80	25	840					48.2	−0.5	21	69.0	4	28.0		27	18.7																4.07	1.07	1.22	10	21	0	1	
Peterboro	44	17	78	19	722					47.5	+0.5	11	70.0	4	25.0		28	21.3																4.08	1.27	1.10	13	18	0	0	
Porcupine	48	29	81	18																																					
Providence Bay	45	40	82	14						41.6	—	1	66.0	5	22.0		30	19.0																6.02		1.63	8	23	0	1	
Ronville	45	15	78	57	1638					44.0	—	4	62.0	19	17.0		31	17.7																3.86		1.63	10	21	1	0	
Renfrew	45	26	76	39	416					45.9	+2.0	22	73.0	10	23.9		31	21.6																1.85	0.18	0.72	9	22	1	0	7
Stonecliffe (Rockliffe)	46	9	78	6	557	30.05	30.31	29.38	0.96	43.3	+0.2	34	70.0	10	15.0		30	22.6			3	0	4	0	1	0	11	1	39	62				3.01	0.60	0.90	8	23	1	0	
Southampton	44	30	81	21	656	30.10	30.42	29.53	0.89	47.0	−1.0	35	69.2	16	32.1		18-30	14.1	7	10	10	9	7	9	21	1	1	0	1	62				5.18	2.51	1.27	15	16	0	2	
*Sarnia	42	59	82	24	586																																				

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, OCTOBER, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n.	Highest.	Date.	Lowest.	Date.	Mean daily range.
Ontario—*Concluded.*															
Stratford	43 23	81 0	1190					46.6	0.7	47	71.0	1	26.0	28	17.1
Stony Creek	43 13	79 45	292					49.0	1.0	27	71.0	4	27.0	28	16.3
Schreiber	48 50	87 15						39.6		8	66.0	4	13.2	30	16.6
Shelburne	44 5	80 17						44.7		3	61.0	4, 12	21.0	28	18.5
Scarboro' Junction	43 44	79 13						47.5		2	72.0	4	25.0	28	17.4
Toronto	43 40	79 24	350	30.00	30.42	29.54	0.88	49.5	1.2	70	74.6	4	27.4	28	16.4
Uxbridge	44 5	79 8	886					50.0		7	65.0	10	27.0	28	18.3
Uplands	45 48	79 25						43.5	0.2	26	70.0	10	14.0	31	23.2
Ursa	44 54	78 48													
White River	48 35	85 16	1252	30.01	30.29	29.23	1.06	36.9	1.2	22	70.0	9, 10	4.0	31	21.6
Woodstock	43 8	80 47	980	30.06	30.37	29.61	0.76	46.8	0.3	37	68.0	4	26.2	28	17.9
Welland	42 59	79 17	577					49.0	1.0	26	70.0	4	25.0	28	15.9
Windsor	42 20	83 4	625					49.9	1.4	38	69.0	5, 17	29.0	28	13.7
Wallaceburg	42 35	82 24						48.4		6	69.0	15, 16	21.0	27, 28	19.2
Quebec.															
Abitibi	48 33	79 22						39.6	0.8	16	61.0	9	14.0	30	12.6
*Anticosti, E. Point	49 6	61 42	30												
*Anticosti, W. Point	49 52	64 32	30					39.0	0.7	30	48.0	22, 23	27.0	17, 28	
Brome	45 10	72 36	678					44.4	0.2	31	68.0	20	17.0	28	19.3
*Bicquet	48 25	68 53						38.7		30	48.0	21	27.0	30	
Clarke City	50 10	66 25													
*Cape Chatte	49 6	66 45						38.7	3.4	29	57.0	23	26.0	30	
*Cape Magdalen	49 16	65 20	93					40.3	0.4	29	65.0	23	28.0	31	
Chicoutimi	48 25	71 5	150					42.4	1.8	33	68.8	11	18.3	31	16.5
Chicoutimi (2)								41.6		1	69.0	10	18.0	31	15.9
Cap Rouge	46 46	71 18						43.2		1	65.0	11	23.2	28, 31	17.3
Disraeli	45 55	71 21						41.6		1	69.5	18	20.0	28	22.5
Father Point	48 31	68 19	20	30.01	30.44	29.41	1.03	41.3	1.3	31	62.7	23	22.0	31	11.3
Lake Edward	47 39	72 15	1333					39.5		2	68.8	12	12.8	30	18.5
La Tuque	47 27	72 48	530					41.6		1	72.0	12	21.0	30	21.8
Montreal	45 30	73 35	187	30.07	30.48	29.30	1.18	48.2	2.1	37	66.0	4	26.8	28	12.9
Perkin's Mills	45 38	75 38													
Quebec	46 48	71 13	296	30.05	30.48	29.29	1.19	43.9	0.9	37	65.0	11	22.6	28, 30	14.6
*Roberval	48 31	72 13	352												
St. Anne de Bellevue	45 27	73 59						47.8		5	71.8	4	24.0	28	15.5
Shawinigan Falls	46 34	72 43						40.6		10	67.0	11	18.0	30	19.3
Sherbrooke	45 32	72 5	620					41.4		9	66.7	23	23.3	28	18.1
New Brunswick.															
Chatham	47 3	65 29	21	30.05	30.51	29.36	1.18	43.5	1.8	37	65.5	22	22.5	31	19.5
Dalhousie	48 4	66 22	39					42.4	1.3	36	65.0	10	21.0	29	11.5
Fredericton	45 57	66 36	164	30.08	30.58	29.42	1.16	42.7	2.0	38	71.0	11	23.0	15	22.3
Grand Manan	44 47	66 46	49	30.09	30.56	29.10	1.07	47.9	0.2	27	68.6	11	32.0	28	12.1
Moncton	46 9	64 45	50					42.6	−2.3	11	66.0	21	18.0	28	21.3
*Point Lepreaux	45 4	66 28	30					43.3	−1.0	33	55.0	9, 10	30.0	28	—
St. John	45 17	66 1	70	30.07	30.56	29.46	1.10	46.6	−0.8	38	65.5	11	27.5	28	12.9
St. Stephen	45 11	67 16	35					44.8	−2.2	14	73.0	11	17.0	30	25.4
Sussex	45 38	65 38	69					44.5	1.2	14	67.0	11	20.5	7	21.8

Nova Scotia—																																		
Antigonish	45 38	61 59	50					45·0	—	1	74·0	24	21·0	29	21·9																	0	0	0
Halifax	44 39	63 36	88	30·06	30·51	29·81	0·67	46·5	— 2·3	37	68·2	11	26·5	29	16·1			10	12	2	6	3	6	11	9	3	62	2·05	3·54	0·43	8 23	1	0	0
Port Hastings	45 39	61 22	45					—	—	20	—		—	—	—			0	2	0	3	0	14	0	12	0	31	1·20	3·38	0·55	2 29	0	0	0
Parrsboro'	45 23	61 19	40					41·9		15	69·0	24	21·0	28	17·8																	0	0	0
Sydney	46 10	60 10	35	30·05	30·50	29·23	1·27	45·5	— 2·0	38	70·0	23	26·1	18	16·9	7	10	2	4	3	3	1	16	10	17	6	62	2·24	2·74	0·9[illegible]	8 23	0	0	0
*Sable Island, E. Point	43 58	59 16	25																															
Truro	45 22	63 18	77					44·9	— 1·3	37	72·0	23	16·2	29	24·2	6	1	2	6	3	7	6	23	4	11	10	72	0·72	3·86	0·25	6 25	0	0	4
Windsor	44 59	64 6	90					45·7	—	9	69·0	24	25·0	29	17·9													1·59		0·56	6 25	0	0	0
*Whitehead	45 15	61 8	20					47·6	— 1·8	28	61·0	11	35·0	14	—			4	3	14	1	9	23	12	24	0	93	2·70	1·52	1·35	4 27	0	0	5
*a*Wolfville	45 7	64 20		30·01	30·45	29·37	1·08	46·0	1·7	11	73·2	23	26·5	8	19·4			3	5	4	6	3	5	14	11	11	62	0·27	3·71	0·11	6 25	1	0	1
Yarmouth	43 50	66 2	65	30·10	30·55	29·55	1·00	47·9	+ 0·4	31	61·3	16	28·3	8	14·2			10	7	11	5	3	7	7	8	4	62	1·62	3·05	0·73	9 22	0	0	2
P. E. Island—																																		
Charlottetown	46 14	63 10	38	30·05	30·49	29·38	1·11	45·0	— 2·1	36	66·0	23	28·0	31	13·8			2	6	0	9	6	17	5	11	3	62	1·03	3·61	0·30	8 23	0	0	1
Charlottetown (2)	46 14	63 7	75					44·5		2	64·0	23	27·0	29	15·2													1·38		0·34	9 22	0	0	0
Hamilton	46 25	63 48						45·7	1·3	14	64·0	21	32·0	13	14·7			1	0	0	0	3	15	10	2	0	31	0·41	3·13	0·28	2 29	0	0	0
Newfoundland—																																		
*Amour Point	51 28	56 51																																
Burin	47 0	55 10	27	30·01	30·45	28·93	1·52	42·7	—	3	58·0	6 11	26·0	3	18·6			0	6	3	1	4	13	16	15	4	62	5·87		1·52	12 19	0	0	2
*Cape Norman	51 38	55 52																																
Fogo	49 43	54 17	30	29·90	30·39	28·82	1·57	41·8	—	2	58·0	24	28·0	31	9·5			6	4		1	5	9	16	12	2	62	3·21		1·06	15 16	0	0	0
*Point Rich	50 42	57 25	35					40·3		27	52·0	23	30·0	28				4	16	4	0	5	3	38	23	0	93	3·06	0·45	1·42	9 22	0	0	3
Port aux Basque	47 35	59 10	27	29·98	30·45	29·12	1·33	40·[illegible]		3	55·0	16	28·5	31	10·8			3	8	8	2	4	7	13	15	2	62	2·[illegible]		0·69	15 16	0	0	3
St. John's	47 34	52 42	125	29·90	30·39	28·8[illegible]	1·59	43·7	— 1·7	38	65·0	23	25·0	18	15·6	6	5	8	2	0	1	16	13	15	3	1	62	7·34	1·10	0·78	13 18	0	0	0
Bermuda—																																		
Prospect	32 17	64 46	151	30·07	30·25	29·73	0·52	73·7	+ 0·3	21	81·6	20	63·8	19	10·7			8	19	13	4	9	5	1	3	0	62	1·[illegible]	[illegible]	0·78	9 22	0	2	0

PART [illegible] — STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING OCTOBER, 1911.

Stations	Rainfall: Amount	No. of Days of ·01 or over	No. of Rain Day	Heaviest Fall in Month	Date	Snowfall: Amount in Inches	No. of Days	Heaviest Fall in Month	Date	Remarks
[illegible]	[illegible]	[illegible]	8	[illegible]	6					
[illegible]	1	[illegible]	21	[illegible]	11					
[illegible]	[illegible]	[illegible]	8	0.47	13					
[illegible]	[illegible]	[illegible]	[illegible]	0.40	9					
[illegible]	11	[illegible]	25	1.10	6					
[illegible]	[illegible]	[illegible]	21	0.32	13					
[illegible]	13	10	21	0.21	11					
[illegible]	[illegible]	4	25	0.80	14					
[illegible]	[illegible]	8	23	0.20	6					
[illegible]	[illegible]	10	21	[illegible]	15					
[illegible]	6.2	7	21	1.46	13					
[illegible]	[illegible]	[illegible]	26	1.20	9					
[illegible]	[illegible]	1	30	0.63	3					
[illegible]										
[illegible]	1.[illegible]	11	20	0.75	11					
ALBERTA										
Bardo	0.53	1	29	0.53	3		1		18	
Bismarck	0.62	2	28	0.41	2	[illegible]	1	0.5	31	
[illegible]	0.65	3	27	0.53	2					
Bittern Lake	0.31	[illegible]	25	0.28	2					
Brooks	0.47	5	25	0.43	2 11	[illegible]	1	[illegible]	24	
[illegible]										
Cardston	0.36	3	28	0.48	2					
Campsie	0.54	3	25	0.41	2	5.3	3	4.[illegible]	24	
Caldwell	0.40	2	26	0.30	3					
Dunmore	0.32	1	26	0.25	2	0.1	1	0.1	31	
[illegible]	0.16	1	29	0.10	22	1.0	1	1.0	23	
Grassy Lake										
Jumping Pound										
Lacombe	0.34	1	27	0.34	2	2.8	3	2.0	24	
[illegible]	0.26	1	27	0.26	2	3.5	3	2.0	23	
[illegible]										
Lineham	0.21	1	28	0.21	2	3.5	2	3.0	23	
Macleod										
[illegible] (Mount [illegible] Red [illegible])										
Rd	0.15	2	28	0.11	2	3.0	1	3.0	24	
[illegible]	12	1	29	B	18	1.0	1	1.0	23	
Okotoks	0.60	1	27	0.60	2	3.8	3	3.0	23	
Pincher	0.44	1	30	0.44	3					
Ponoka										
[illegible]										
[illegible] Creek	0.24	5	26	0.13	2					
Sion	0.30	1	29	0.30	18	2.0	1	2.0	22	
Seven Persons										
Tilley										
SASKATCHEWAN										
[illegible]										
[illegible]										
[illegible]										
Forks Swift Current (Gull Lake)	0.87	5	26	0.51	2					
Gull Lake	1.15	4	27	0.65	1					
[illegible]	1.20	1	30	1.20	3					
Hanley										
Kindersley							1		31	
Last Mountain	0.71	1	29	0.71	2					
Maple Creek	0.72	6	25	0.44	3					
Meadow Lake	1.50	4	25	0.58	11	1.0	1	1.0	21	
[illegible]	0.38	1	29	0.38	3					
MANITOBA										
Cartwright	2.06	5	26	1.58	3	0.2	1	0.2	23	
Deloraine	2.61	5	25	1.92	2	[illegible]	1	[illegible]	20	
[illegible]	2.24	6	21	1.11	3	0.1	1	0.1	19	
[illegible]	3.06	3	27	3.00	3					
Rapid City										
[illegible]										
ONTARIO										
Deer Park	2.36	7	23	1.37	18	1.5	1	1.2	31	
Dutton	3.00	5	22	1.00	3	[illegible]	2	[illegible]	23 26	
[illegible]	3.37	13	16	1.27	18	[illegible]	2	[illegible]	27 30	
Georgetown	4.43	10	20	1.17	11	1.1	1	1.1	27	
Grantham	3.11	11	20	0.89	18					
Grand Valley	4.17	11	20	1.08	18					
[illegible]	2.61	8	23	0.81	1					
Orangeville	5.00	9	22	1.73	7	0.5	1	0.5	27	
Princeton	4.52	6	24	1.33	6					
Sydenham	3.87	6	25	1.25	4		1		27	
Strathroy	3.72	[illegible]	23	0.86	6					
Watford	4.11	[illegible]	24	1.03	6	1.5	1	1.5	30	
Westport	3.21	[illegible]	25	1.12	5					
[illegible]	4.79	7	24	2.37	18					
Westminster	4.20	6	25	1.43	17	1.0	1	1.0	27	
Wesley	4.27	11	19	0.94	7					
QUEBEC										
Kipawa	0.19	2	28	0.12	17	0.1	1	0.1	31	
[illegible]	2.87	[illegible]	22	1.27	17		[illegible]		27 31	
Perkins Mills	3.38	8	23	1.25	22					
Quinze Dam	3.22	10	21	1.11	22					
Timiskaming										
NEW BRUNSWICK										
Point Escuminac	0.90	3	28	0.61	12					
NOVA SCOTIA										
Kentville	0.64	4	26	0.46	27	1.5	1	1.5	28	
Kedgemakooge Lake (New Grafton)	0.88	3	28	0.36	23					
Liverpool	1.46	6	25	0.52	31					
Milton Rapid Falls Mills	1.45	3	28	0.55	24	2.0	1	2.0	28	
South Alton	0.58	1	26	0.10	28					
White Rock	1.28	6	25	0.17	27					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF OCTOBER, 1911.

STATIONS.	Hours Ending															
	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.
Victoria							02	12	31	43	51	56	60	60	46	33	06	01
Salmon Arm							01	11	35	56	69	72	70	70	72	42	10	
Nanaimo								01	12	29	43	42	45	46	43	39	11	
Vancouver								00	35	51	59	53	52	53	41	32	03	02
Agassiz								02	39	48	58	66	71	65	59	52	11	
Dunvegen								07	31	44	47	53	62	62	70	60	28	
Summerland							03	61	76	78	78	79	77	76	69	65	21	
Kamloops								28	70	71	78	87	88	85	79	62	16	
Edmonton							01	21	41	55	57	61	57	58	60	60	40	01
Lethbridge							02	47	64	66	72	70	67	59	58	54	40	03
Lacombe							01	27	52	60	67	67	69	68	63	54	41	02
Medicine Hat								12	52	67	78	72	66	66	63	51	20	
Fort Vermilion																		
Duvegan																		
Battleford							06	27	40	48	55	58	62	65	62	57	15	
Indian Head								13	18	48	50	56	57	52	51	16	13	
Scott							01	30	52	62	63	66	67	74	72	58	36	
Rosthern							02	33	53	60	60	63	63	65	50	54	37	
Moosejaw							01	35	51	53	55	53	56	55	56	57	30	
Brandon							03	28	50	53	53	48	46	40	40	36	11	
Winnipeg							02	22	42	47	49	49	53	48	42	36	25	07
Haileybury							03	30	41	40	44	52	53	47	50	47	34	07
Woodstock								11	49	58	60	62	61	58	53	48	30	02
Lindsay								01	33	55	57	58	57	61	62	47	34	10
Barrie							02	33	43	52	52	53	19	18	46	45	21	
Toronto								30	56	60	66	68	68	64	60	50	27	T
Kingston								15	32	35	47	49	57	58	58	53	24	
Ottawa							03	28	46	46	59	55	53	51	53	54	37	06
Montreal							06	32	46	51	51	50	51	50	50	51	33	
Quebec							03	30	43	48	46	47	48	47	44	37	28	02
Sherbrooke							06	38	48	47	50	50	51	49	42	34	22	02
Cap Rouge							10	39	46	41	44	43	40	37	37	31	22	01
Fredericton							02	37	51	55	67	69	67	70	63	59	44	19
Charlottetown								20	41	44	49	56	64	58	50	46	31	

	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz	Dunvegen	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Scott	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Cap Rouge.	Fredericton.	Charlottetown.
Registered duration in hours.	137	164	98	140	147	142	213	206	159	187	177	170	141	153	135	156	180	170	126	131	130	155	147	137	170	133	152	145	131	130	121	185	145
Percentage of possible duration %	41	50	29	42	44	44	63	61	48	56	53	51	44	46	40	46	54	51	37	39	41	45	43	40	50	40	45	46	39	40	35	54	43
Difference from average %	+6	..	..	..	+9	..	.	..	..	..	..	..	..	−2	+2	..	..	.	−2	−1	.	6	+3	+6	+6	+0	+10	+5	..	.	..	−10	.
Maximum percentage in one day %	90	89	80	93	86	83	92	84	92	96	88	84	81	90	85	92	95	99	97	96	92	90	85	87	90	83	94	98	90	98	94	96	87
Date of maximum	7	7	16	25	26	16	31	7	10	30	16	15	8	16	27	13	16	26	26	9	10	28	18	7	13	7	13	14	3	10	14	28	25
No. of days completely clouded	4	2	11	6	6	4	2	1	6	3	3	4	2	3	6	5	2	3	3	9	5	6	5	6	6	10	6	3	7	5	7	7	4

Aurora recorded :

If the intensity was noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

2. Fort Vermilion III.
3. Fort Vermilion II.
4. Fort Vermilion II.
5. Sion, Oliver, Fort Vermilion IV.
6. Waitefield II, Oliver, Fort Vermilion III.
7. Pakan III, Waitefield II, Oliver.
8. Sion, Brandon, Aitkensville IV, Schreiber, Winnipeg III, Oliver, Fort Vermilion II.
9. Sion, Renfrew, Esterhazy III, Oliver, Melfort II.
10. Chaplin IV, Luseland, Muenster I (very brilliant), Peace River Crossing II, Sion II, Cartwright III, Emsdale II, Hillsdown III, Halkirk, Pakan IV, Waitefield I, Brandon (brilliant), Hillview I, Treherne, III, Oakbank, Kakabeka Falls III, Haliburton (very bright), Chicoutimi, Fredericton I, St. Stephen, Haileybury I, Winnipeg II, Kingston, III, Stonecliffe I, Aitkensville, IV, Carberry, Aweme I, Beatrice IV, Schreiber, Ronville, North Gower, Matheson III, Montague Madoc, II, Lake Talon, Parry Sound III, Montreal I, Quebec, IV, Grand Manan IV, St. John III, Halifax III, Campsie I, Lunnford II, Waseca, Glenbryan, Oliver, Estevan III, Fort Vermilion I, Maple Creek, Crescent Lake II.
11. Sion, Loch Sloy, Harmattan II, Schreiber, Chicoutimi, Minnedosa I, Port Arthur I, Ottawa II, Esterhazy IV, Delia.
12. Sion, Esterhazy III.
13. Haileybury IV.
14. Sion, Chicoutimi, Chaplin IV.
15. Sion, Chaplin IV.
16. Sion, Red Deer I, Waitefield II, Birnam III, Fort Vermilion III, Delia.
17. Sion, Red Deer I, Treherne III, Aitkensville II, Kakabeka Falls IV, Esterhazy IV, Estevan IV.
18. Sion, Red Deer, Kakabeka Falls, Haileybury II, Esterhazy IV, Fort Vermilion IV, Crescent Lake.
19. Sion, Waitefield III, Haileybury IV, Fort Vermilion III.
20. Sion, Red Deer I.
21. Sion III, Halkirk, Waitefield III, Schreiber IV, Fort Vermilion II.
22. Waitefield IV, Fort Vermilion III.
23. Crescent Lake III.
24. Sion, Waitefield IV, Aitkensville IV, Haileybury IV, Quebec IV.
25. Sion, Aitkensville IV.
26. Sion, Waitefield III, Waseca, Fort Vermilion III.
27. Sion, Waitefield III.
28. Sion IV, Waitefield IV.
29. Sion IV.
30. Sion IV.
31. Sion, Waitefield III.

Thunder recorded :

2. Last Mountain.
3. Emsdale, Dutton, Beatrice, Providence Bay, Paris, Lucknow, Point Clark.
4. Haliburton, Birnam, Fredericton, Southampton, Parry Sound.
13. Golden, Wilmer.
15. Cottam.
16. Cottam.
17. Bruce Mines.
18. Cottam.
21. Point Clark.
22. Lucknow, Southampton, Parry Sound.
23. Clinton, Brome.
25. Chicoutimi.

FORECASTS FOR OCTOBER, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1243. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per centage.
Alberta	79	65	11	3	81·2
Saskatchewan	81	63	16	2	87·7
Manitoba	81	66	12	3	88·9
Lake Superior	114	81	24	10	81·9
Lower Lake Region	119	95	18	6	87·4
Georgian Bay	118	86	27	5	84·3
Ottawa Valley	94	79	11	2	90·4
Upper St. Lawrence	96	83	9	3	92·1
Lower St. Lawrence	113	91	15	7	87·2
Gulf	117	88	23	6	85·0
Maritime Provinces West	115	78	20	17	76·5
Maritime Provinces East	115	80	22	13	79·1
Total	1243	965	211	77	85·3

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
November 27, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.
METEOROLOGICAL SERVICE.

Monthly Weather Review

VOL. XXXV. NOVEMBER, 1911 No. 11.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm-signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

TEMPERATURE.

BRITISH COLUMBIA.

In the far northern districts of the province, the Cariboo region, and along the upper reaches of the Fraser River, temperatures dropped below zero, Fahrenheit, on the 8th, and severely cold weather continued till the 17th, 30° below zero having been registered in the interval. The remainder of the month was, with the exception of the 26th and 27th, much milder. On the North Coast and on Vancouver Island, the second week was cold, minimum temperatures of the month occurring then, and ranging between 7° and 10° above zero. In the northern portion of the Okanagan Valley, portions of the Kootenays, along the Thompson River and the north branch of the Columbia, the second week was marked by temperatures well below zero. At Glacier and Golden, in the last-mentioned locality, 15° and 27° below zero were registered, respectively.

The mean temperature of the month was lower than the normal November temperature over the whole of the province. The difference from normal, while not great on the coast or on Vancouver Island, ranged between 6° and 10° in the interior.

THE WESTERN PROVINCES.

The mean temperature of November, 1911, was well below the average of the preceding twenty-five years, the differences ranging from 4° to 11°. At Winnipeg, the mean was nearly 7° below the twenty-five year average, but compared with the average temperature of the preceding forty years (including the observations made in the early days of Manitoba at Fort Garry), was only 3° less. In the more northerly portions of Alberta and Saskatchewan, the differences from normal temperature were least. In Manitoba the lowest mean temperatures were, speaking generally, found in the western portion.

The month began with temperatures very close to zero, but the remainder of the first week was mild. A period of severe cold began on the 9th and lasted till the 18th, during which the thermometer registered temperatures lower than 20° below zero in practically all districts, and 30° below in many places lying north of the 52nd parallel. During the remainder of the month the weather was, on the whole, milder, although on the 28th and 29th, the minimum temperatures were again everywhere below zero.

ONTARIO

[illegible] Lake Superior districts was very similar to that experienced in eastern Manitoba. In the [illegible] portion of the District of Nipissing the lowest temperatures of the month, from 20° to 30° below zero, were recorded on the 16th and 17th, and again on the 25th, while 5° below was registered on [illegible] days. In the Lake Temiskaming district the cold was not so severe, the mean temperature at Haileybury exceeding that at Porcupine and at Cochrane by 6°, while the lowest temperature at Haileybury was 2° below zero, registered on the 25th. The mean temperature at Stoneliff, on the upper Ottawa River, was 2° higher than that of Haileybury, while the mercury did not descend below zero during the month, the coldest days having been the 17th and 25th, when 1° above was the lowest minimum reading.

In the peninsula of Ontario mean temperatures ranged from 2° to 4° below the normal and were about 10° higher than the mean temperatures of the Lake Temiskaming region and about 16° higher than those of Northern Nipissing. Except locally in the counties below the Georgian Bay, and in the central counties of South Eastern Ontario, temperatures below zero were not recorded in southern Ontario.

QUEBEC.

In Western Quebec the coldest days of the month were the 15th, 17th, 18th and 23rd, the minimum temperature generally occurring on the 17th and ranging from 7° to 10° through the district. Along the Middle St. Lawrence the minimum occurred in the last week and varied between 5° and 10°.

In Northern Quebec the cold was more severe, 2° below zero having been registered on the 30th at La Tuque, and 10° below at Lake Edward. On the Saguenay River the coldest weather, 3° above zero, was experienced during the last week. 5° below was recorded on the 16th and 17th at Abitibi, and 15° below on the 22nd, 24th and 25th. In the Gaspé Peninsula the extremes of temperature were 6° and 9°.

The mean temperature of the month was about 2° lower than the normal over the greater part of Quebec, but at Montreal was scarcely 1°, and at Abitibi nearly 5° lower.

THE MARITIME PROVINCES.

Mean temperatures ranged between 1° and 2° below the normal except in the southwestern portion of Nova Scotia, where the difference was practically nothing. The lowest temperatures of the month were, in nearly all instances, about 15°.

The highest and lowest temperatures recorded in each Province during the month of November, 1911, were:

British Columbia	68	at Ruskin on the 1st.	−31	at Chilcotin on the 10th.
Alberta	62	at Alix, on the 25th.	−37	at Banff on the 11th.
Saskatchewan	56	at Indian Head on the 4th.	−35	at Regina on the 11th.
Manitoba	51	at Aweme on the 4th.	−28	at Brandon on the 15th.
Ontario	70	at Southampton on the 12th.	−22	at White River, 16th and 21st.
Quebec	67	at Brome on the 12th.	15	at Abitibi on the 22nd.
New Brunswick	65	at Chatham on the 13th.	6	at St. Stephen on the 26th.
Nova Scotia	63	at Wolfville on the 13th.	11	at Truro on the 4th.
P. E. Island	59	at Charlottetown on the 13th.	13	at Charlottetown on the 13th.

PRECIPITATION.

BRITISH COLUMBIA

In the interior of the Province, except in the southeast Kootenay, the precipitation was in excess of average. On the lower Fraser and the coast, as well as locally in the Cariboo region, there was a deficiency. On Vancouver Island, however, the excess was from one-third to one-quarter of the average. In the lower interior the precipitation consisted of rain during the first and third weeks, and of snow during the second.

THE WESTERN PROVINCES.

At Banff precipitation was nearly normal, while at Medicine Hat it was in excess. Elsewhere in Alberta there was a small deficiency.

In Western Saskatchewan there was nearly the normal amount, while eastwards precipitation was in excess by more than one hundred per cent. of the normal.

In Manitoba the distribution was very irregular, some places showing a small deficiency and others a moderate excess.

Rain occurred at many places throughout the West on the 3rd and 4th, and at a few on the 5th, but during the remainder of the month precipitation consisted wholly of snow.

ONTARIO.

Precipitation was nearly everywhere in the province very heavy, and much in excess of average. Thunder and lightning accompanied rain on the 11th in the northern districts. In northwestern Ontario and the Georgian Bay district snow fell every day from the 13th to the 20th, and again on the 22nd, 23rd, 25th, 27th, 28th. In the southern counties the precipitation was more often in the form of rain.

QUEBEC.

At Montreal, in the "Eastern Townships," and at Father Pt. the precipitation was a little less than normal, but at Quebec City the average was well exceeded, while at Cape Chatte and Cape Magdalen the precipitation was very heavy. At Abitibi there was an excess of about 80 per cent.

THE MARITIME PROVINCES.

While there were some local exceptions, for the most part in Southern New Brunswick, the precipitation in the Maritime Provinces was in the main above average, and in some parts of Nova Scotia heavily so. In northern New Brunswick rain and snow fell on an equal number of days, but elsewhere rain on a large majority of days.

DEPTH OF SNOW ON THE GROUND.

On the last day of the month the ground was snow-covered from Saskatchewan to the Maritime Provinces with the exception of a large part of Southern Ontario where the ground was bare. In northern districts the depth exceeded 12 inches, elsewhere it was from 2 to 8 inches.

THICKNESS OF ICE.

Thickness of ice was reported as follows:—

Western Provinces.—Battleford, 6 inches; Swift Current, 26; Minnedosa, 14.
Ontario.—Cochrane, 4 inches; Port Arthur, 4; Ottawa, 5.5.
Maritime Provinces.—Fredericton, 4 inches.

ATMOSPHERIC PRESSURE.

The mean value of the atmospheric pressure for November was in excess of the average in Alberta and British Columbia, and in defect elsewhere in Canada. Positive differences were about 0.05 of an inch in British Columbia and about 0.02 of an inch in Alberta, while the amount of the defect increased eastwards from Saskatchewan to about 0.12 of an inch over the Gulf of St. Lawrence and the eastern part of the Maritime Provinces. The extremes of departure from average were +0.065 of an inch at Victoria, B.C., and -0.136 of an inch at Father Point, Que.

HIGH AREAS

[illegible] pressure were charted, four first appeared in the Yukon Territory and three [illegible] United States. The general track of the areas was south of the Great [illegible] the coast, thence either directly out to sea or over the Maritime Pro- [illegible]. The areas were for the most part very pronounced and attended [illegible]. The system which on the 21st passed into the North Pacific States from the [illegible] to be of remarkable energy and persistence. It covered the Pacific States, [illegible] westwards and southwards until the close of the month and the early days of [illegible] however, meanwhile detached itself from the main area and passed between the [illegible] Gulf of Mexico.

LOW AREAS.

[illegible] pressure were charted. Eleven first appeared in the northwestern portion [illegible] in the North Pacific States, one in the Western States, one in the Southwest [illegible] Gulf of Mexico. The general track of the areas was over the Great Lakes and [illegible] Valley, the two systems which appeared in the Gulf of Mexico proving the [illegible] and passing up the United States Atlantic Coast. The areas were in many [illegible] energy and quite often of unusual intensity and gales were of frequent occurrence. [illegible] was [illegible] for the month from British Columbia to our Atlantic Coast was very con- [illegible] and [illegible] in excess of the large amount which is as a rule recorded in November.

WINDS, NOVEMBER, 1911

PROVINCES AND STATIONS	Total Mileage.	Greatest Mileage in 24 hours	Greatest Mileage in one hour	Number of days of Calm	Number of days of Strong Winds	Number of days of Fresh Winds	Direction
British Columbia							
Victoria	6890	534	37	1	10	3	S W
Point Garry	7425	603	35	7	8	6	I
Alberta							
Edmonton	4371	349	25		1	2	
Calgary	3963	249	21		1	5	W. & N. W
Saskatchewan.							
Swift Current	6632	330	24		3	12	S W
Qu'Appelle	8257	432	24		9	11	S W. & W
Prince Albert	3495	227	15			2	W
Manitoba							
Winnipeg	8202	470	30	1	10	9	S W
Ontario							
Port Arthur	9168	695	42	7	11	4	N W.
Parry Sound	8436	576	32	2	6	14	S E. & S W
Southampton	10666	738	34	5	16	5	S. & S W.
Pelee Island	12592	813	58	12	13	4	
Woodstock	8911	635	31	5	9	7	S W
Toronto	11991	902	43	6	16	5	S W. & W
Quebec.							
Quebec	10422	630	44	6	13	8	S W
Maritime Provinces.							
Fredericton	7108	592					N W
St. John	12467	858	44	14	8	2	N W
Halifax	10452	593	44	9	11	4	N W.
Point Lepreaux	16089	1038	54	10	4	2	W
Flat Point	15576	1188	56	24	6	2	W
Charlottetown	7497	567	30	1	8	9	N W.

DEPARTMENT OF MARINE AND FISHERIES, CANADA: METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, NOVEMBER 1911

a Barometer not reduced to Sea Level. *Stations not furnished with Registering Thermometers.

Station	Latitude N.	Longitude W.	Elevation above sea level in feet	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Temperature: Difference from average	Temperature: Yrs. Observations	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: Mean daily range	Dew point, Humidity, Cloud, Directions of Wind, Velocity of Wind, Precipitation
British Columbia																
Alberni (Beaver Creek)	49 15	124 49	300					37.3	4.9	16	64.0	5	9.0	11	11.0	[illegible]
Agassiz	49 14	121 31	52					38.2	1.6	21	63.0	1	12.0	11, 13	11.1	[illegible]
Atlin	59 35	133 38	2240	29.96	30.71	29.25	1.46	18.2		6	35.0	2	13.5	12	10.2	[illegible]
Barkerville	53 2	121 35	4180	29.97	30.55	29.60	0.95	18.0	0.7	23	40.0	2	21.0	10	11.9	[illegible]
Bella Coola	52 40	126 54						30.1		12	51.0	1	7.0	10, 11	8.9	[illegible]
Babine Lake	55 28	126 26														
Boswell	49 19	116 44														
Chilcotin (Big Creek)	51 40	123 0						17.9		7	54.0	2	31.0	10	22.9	[illegible]
Cranbrook	49 30	115 50						23.0		3	46.0	5	25.0	10	23.5	[illegible]
Clayoquot	49 11	125 47	40					44.5		12	58.0	[illegible]	22.5	10	10.[illegible]	[illegible]
Cowichan (Tzouhalem)	48 25	123 42	170					40.0		5	59.0	[illegible]	7.0	11	12.[illegible]	[illegible]
Chilliwack	49 10	121 57	21					37.8		10	55.0	4	10.0	11	10.1	[illegible]
Crawford Bay	49 45	116 45	2000					29.[illegible]		1	40.0	4	5.0	9	12.7	[illegible]
Enderby	50 32	119 7	1180					25.1		6	49.0	4	1.0	10	14.4	[illegible]
Fort St. James (Stuart's Lake)	54 28	124 12	2280					18.7	5.7	18	44.0	[illegible]	29.5	14	21.9	[illegible]
Fairview	49 11	119 36						30.8		2	48.0	1, 11	21.0	30	14.8	[illegible]
Fruitvale	49 9	117 31														
Glacier	51 14	117 29	4072					18.6		10	39.0	3	15.0	10, 12	10.2	[illegible]
Golden	51 16	116 55	2550					16.0		10	41.0	1	27.0	11	17.1	[illegible]
Grand Forks	49 2	118 27						25.1		1	53.0	4	7.0	11	13.4	[illegible]
Greenwood	49 5	118 40														
Holberg	50 39	128 18						40.0		2	53.0	3	29.0	10	7.[illegible]	[illegible]
Hedley	49 35	120 10	1771					28.5		8	52.0	[illegible]	8.0	10	13.6	[illegible]
Hedley (Nickel Plate)										8			25.0	13		[illegible]
Hope	49 23	121 25						32.5		2	51.0	1, 2	9.5	11	10.1	[illegible]
Ikeda Bay	52 17	131 7	[illegible]					43.6		4	55.0	2	15.[illegible]	8	6.8	[illegible]
Kamloops	50 41	120 [illegible]	1245	30.08	30.86	29.50	1.36	26.2	8.8	21	53.5	3	7.0	11	17.[illegible]	[illegible]
Ladner	49 5	123 4						41.5		11	62.0	2	19.0	10	12.[illegible]	[illegible]
Masset, Q.C.I.	53 58	132 9	30					38.9	+0.5	11	54.0	3, 4	18.0	11	9.1	[illegible]
a Nanaimo	49 10	123 37	125	29.92	30.51	29.33	1.18	39.9		11	57.3	3	14.0	11	10.0	[illegible]
Nicola Lake	50 9	120 39	2120					26.1	4.7	16	55.0	1	15.0	11	12.1	[illegible]
North Nicomen	49 12	122 2	50					38.9	3.7	18	55.0	18	9.0	11	11.9	[illegible]
New Westminster	49 13	122 54	330					39.0	4.2	24	52.4	1	9.4	11	9.8	[illegible]
Nelson	49 29	117 21	1760					30.6		10	48.0	2	7.0	11	11.4	[illegible]
Needles	49 40	118 9						32.0		2	49.0	1, 3	7.0	11	12.4	[illegible]
Okanagan Mission	49 52	119 29	1200					28.5	-8.0	12	51.0	3	2.0	11	11.7	[illegible]
Princeton	49 29	120 29	1650					24.3	7.0	16	51.0	3	18.0	11	16.4	[illegible]
Penticton	49 29	119 35						33.7		5	55.5	3	1.0	11	11.1	[illegible]
Pemberton Hatchery	50 20	122 33						29.5		4	51.0	3	1.0	11	8.8	[illegible]
Prince Rupert	54 18	130 18	170	29.85	30.44	29.37	1.07	36.9		2	58.0	27	13.0	9	8.7	[illegible]
Quesnelle	52 59	122 30	1700					20.4	9.5	16	46.0	5	-17.0	11	15.8	[illegible]
Revelstoke	51 0	118 6	1176					25.7		12	44.0	2, 6	1.0	11	10.9	[illegible]
Rossland	49 5	117 48	3400					27.4		8	42.0	3, 4	2.0	11	8.1	[illegible]
Ruskin (Stave Falls)	49 16	122 23	125					39.6		2	68.0	1	7.0	10	11.8	[illegible]
Salmon Arm	50 42	119 35	1152					27.2		10	51.0	4	-4.0	11	10.7	[illegible]
Salmon Arm (Ex. Farm)								26.7		1	46.0	1	1.0	11	11.0	[illegible]
Steveston (Garry Point)	49 21	123 17						39.3	-2.1	16	54.0	6, 8	6.0	11	12.0	[illegible]
Swanson Bay	50 37	126 53						35.5		4	51.0	2	13.0	9	6.9	[illegible]
Summerland	49 57	119 0	1100					29.0		5	54.0	3	-4.0	11	13.1	[illegible]
Sooke	48 41	123 44	25													

Stewart	56	1	130	1	215					27 3		2 47 0	3 2 0	14 8 4
Salt Spring Island	48	50	123	20						40 8		3 54 0	3 14 0	11 9 7
Tobacco Plains (Elko)	49	1	115	5	2684					25 3	— 7 2	16 51 0	18 20 0	11 12 3
Triangle Island	50	52	129	5	680									
aTranquille	50	41	120	29		28 74	29 46	28 21	1 25	26 4		4 53 0	4 — 6 0	11 13 7
Vernon (Coldstream Ranch)	50	14	119	15	1575					26 6	— 6 0	17 48 0	4 — 7 0	11 10 8
Victoria	48	24	123	19	85	30 04	30 47	29 35	1 12	42 8	— 3 0	19 56 1	3 14 2	11 9 2
Vancouver	49	17	123	5	136	30 06	30 58	29 39	1 19	39 9		11 52 8	3 9 6	11 8 0
Winter Harbour	50	32	128	3						42 8		15 56 5	4 5 18 0	10 7 6
Wilmer	50	34	116	11						11 2		3 41 0	18 25 0	11 13 4
Yukon—														
Carcross	60	11	134	34	2171					14 2	—	5 54 0	3 26 0	13 14 3
Dawson	64	4	139	20	1200	30 23	31 08	29 31	1 77	— 4 2	— 3 5	10 30 0	3 —[illegible] 0	15 11 6
Alberta—														
Athabasca Landing	54	43	113	17	1650					14 8		8 53 0	2 —32 0	14 21 7
Alix	52	24	113	10						16 8		6 62 0	25 —24 0	13 26 3
Banff	51	10	115	34	4542	30 10	30 90	29 66	1 24	17 5	— 6 5	16 45 8	2 —37 1	11 17 8
Blairmore	49	40	114	30	4225									
Calgary	51	2	114	2	3389	30 05	30 80	29 48	1 32	18 6	— 6 9	27 51 0	24 —21 0	10 18 9
Cardston	49	12	113	18						20 7		51 0	2 —28 0	9 23 5
Didsbury	51	40	114	8	3300					23 5		10 54 0	2 —26 0	10 23 3
aDunvegan	55	56	118	35	1305									
Daysland	55	52	112	17										
Delia	51	38	112	25						13 8		1 45 9	3 —24 5	11 14 1
Edmonton	53	33	113	30	2158	30 02	30 69	29 47	1 22	19 6	— 4 6	28 51 0	2 —24 0	14 21 0
Eckville	52	23	114	22										
Endiang	51	58	112	6	2795					17 8		2 50 0	3 —23 0	10 18 6
Fort Vermilion	58	27	116	3						4 7		6 53 0	3 —33 5	15 32 8
Gleichen	50	59	112	54	2952									
Gilt Edge	52	59	110	43										
Hillsdown	52	14	113	29	2806					18 5		7 48 0	18 —22 0	13 19 0
High River	50	35	113	53	3394					17 4		8 50 0	3 —23 0	10 20 8
Harmattan	51	45	114	23	3500					15 7		5 52 0	3 —30 0	13 20 1
Halkirk (Einsburg)	52	17	112	10						18 2		2 50 0	3 —17 0	9 18 4
Lethbridge	49	42	112	51	2961					21 7		10 50 8	4 —19 1	10 20 4
Lethbridge Ex. Farm	49	43	112	51						21 3		4 50 4	3 —23 5	10 21 8
Lacombe	52	58	113	44	2783					15 7		4 46 0	2 —21 6	11 22 8
Laurence	50	16	113	26						12 7		4 42 0 16	18 —29 0	10 23 2
Lunnford	51	33	114	19						15 5		3 52 6	2 —31 4	11 25 4
Loveland	52	30	111	54						16 5		2 52 0	3 —19 0	11 15 9
Medicine Hat	50	1	110	37	2161	30 02	30 76	29 32	1 44	20 7	— 7 7	27 55 0	3 —26 0	11 21 2
Macleod	49	44	113	24	3128					21 2	— 7 5	14 50 0	3 4 —23 5	10 18 7
Moose (Tyrol)	51	15	110	39										
Peace River Crossing	56	15	117	15						12 4		4 53 0	6 —33 0	13 21 4
Pembina	54	12	114	0						16 5		4 60 0	3 —26 0 14	15 25 5
Pakan (Victoria)	54	0	112	51						14 1		7 49 9	2 —29 0	14 26 1
Pincher Creek	49	0	114	4	3750					22 0		15 47 0	20 —21 0 19	11 14 8
Red Deer	52	16	113	49										
Spirit River	55	40	118	47										
Sundial	50	6	112	34						19 4		1 50 5	3 —21 0	9 19 0
Threehills Creek	51	30	115	11										
Wetaskiwin	52	58	113	23	2480					16 6		10 48 0	2 —29 0	11 22 3
Waitefield	53	29	111	38	2000					15 0		6 51 5	3 —27 0	11 20 7
Saskatchewan—														
Battleford	52	41	108	20	1620	30 03	30 80	29 56	1 21	15 2	— 3 8	20 53 0	3 —16 0	14 17 2
Broadview	50	23	102	33	1960									
Brownlee	50	45	106	0										
Chaplin	50	26	106	39	2202					11 7	—10 8	27 50 0	3 —23 0	13 21 8
Cannington Manor	49	23	102	2	2064									
Crescent Lake	50	59	102	25	1658					9 9		7 46 9	4 —31 8	15 20 9
Cumberland House	53	56	102	16						8 9		1 34 0	3 6 —19 0	13 16 4
Chagoness	52	32	104	13						14 2		1 53 0	3 —21 0	13 15 9
Duck Lake	52	54	106	20										
Estevan	49	12	103	4	1858					15 9	—11 0	12 47 0	5 —11 0	9 16 7
East End	49	31	108	49										
Foxleigh	50	37	104	29										
File Hills	51	1	103	31										
Fort Qu'Appelle										13 1		1 50 4	3 —22 1	15 21 5

aTranquille	80	7	8	9	4	12	5	2	9	5	6	8	60		
Victoria	88	8	8	15	8	7	5	5	16	2	1	1	60	9 9	37 0 20 s w
Vancouver	88	8	15	0	7	25	7	0	3	3	2	13	60	3 6	18 0 5 w
Dawson		6	8	2	0	4	7	1	0	8	2	36	60		

Stewart	8 70	—	1 60	16	14	0	0	0
Salt Spring Island	5 75	—	1 49	16	14	0	0	3
Tobacco Plains (Elko)	2 60	—1 47	0 80	8	22	0	0	0
aTranquille	1 91	—	0 75	10	20	0	0	0
Vernon (Coldstream Ranch)	4 07	—2 53	0 56	13	17	0	0	0
Victoria	7 40	+1 33	1 32	21	9	0	0	2
Vancouver	12 68	+1 04	1 88	23	7	0	0	3
Winter Harbour	16 44	+4 15	3 01	25	5	0	0	0
Wilmer	1 10	—	0 66	4	26	0	0	0
Carcross	1 28		0 40	8	22	1	0	1
Dawson	1 05	—0 12	0 30	8	22	0	0	0

DEPARTMENT OF MARINE AND FISHERIES, CANADA: METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA NOVEMBER 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

Station	Latitude N.	Longitude W.	Elevation above sea level, in feet	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Difference from average	Observations	Highest	Date	Lowest	Date	Mean daily range
Saskatchewan—Continued															
Grenfell (Brownhill)	50 23	102 53	1957					11 3	10 4	12	45 0	4	23 0	15	22 6
Glenbryan (Larchmount)	49 54	107 27						12 3		1	54 0	4	–25 0	14	21 1
Humboldt	52 12	105 9													
Hubbard (Drumague)	51 5	103 24													
Indian Head	50 28	103 40	1924					13 0	7 8	20	56 0	1	20 0	14	19 8
Imperial	51 22	105 23						—	—	1			22 0	15	—
Kamsack	51 30	101 52													
Kelvinhurst	49 21	109 29						13 2		1	51 0	3	–27 0	10	21 8
Lloydminster	53 18	110 0						13 4		4	51 2	3	–22 5	14	18 4
Luseland	52 5	109 24						12 3		2	52 0	3	–24 0	14	19 0
Lost River								7 8		1	41 0	1	27 0	15	15 6
Moose Jaw	50 21	105 35	1759	30 08	30 94	29 51	1 40	15 3	5 2	16	53 0	3	20 0	14	21 0
Moosomin	50 0	101 37	1884					11 9		9	48 0	3 4	24 0	15	16 4
Munster (St. Peters Monastery)	52 0	105 0	1870					10 8		5	47 0	3	27 0	15	15 5
Melfort	52 47	104 30						10 6		6	44 5	3	–24 0	15	17 4
Maple Creek (Divide)	49 55	109 28	3500					15 4		2	50 6	3	19 2	11	14 3
Onion Lake	53 52	109 59						10 3		3	45 0	3 27	30 0	14	23 3
Oliver	51 46	108 10						11 2		2	52 0	3	24 0	13	21 2
Pense (Gatesgarth)	50 20	105 0	1879					13 6		13	52 0	3	–24 0	10	21 8
Prince Albert	53 10	106 0	1432	29 98	30 79	29 17	1 62	11 9	– 6 1	27	53 9	3	25 0	15	17 7
Prince (Meota)	51 0	108 20	1700					10 1		5	53 0	3	–27 0	14	22 3
Pilger	52 25	105 9						8 7		1	48 0	3	–32 0	15	30 4
Qu'Appelle	50 30	103 47	2115	29 99	30 87	29 52	1 35	13 3	– 7 8	27	46 0	3	18 0	10	15 8
Quill Lake	52 4	104 14	1600							1			32 0	13	
Regina	50 27	104 37	1885					11 6	7 7	26	47 0	3	35 0	11	20 6
Rathmullen	51 20	108 57						7 5		2	49 0	4	32 0	10 11	22 9
Rosthern	52 40	106 20	1657					9 8		1	49 0	4	28 0	15	19 6
Swift Current	50 20	107 45	2139	30 09	30 87	29 58	1 29	15 3	11 4	25	50 0	3	21 0	10	15 1
Saskatoon	52 15	106 30	1571					11 4		10	50 2	4	24 2	15	21 8
Strassburg	51 5	104 56						10 8		1	48 0	3	–20 0	10-12	18 3
Scott (Ex. Farm)	51 59	109 30						11 7		1	50 1	3	–21 8	13	20 1
The Pas	53 49	101 15	860	30 00	30 86	29 52	1 34	9 9		2	40 0	3	–17 0	11 14	15 6
Waseca	53 6	109 29						12 5		3	48 0	3	–24 0	14	20 6
Yorkton	51 11	102 29													
Yarbo (Fairfield)	50 39	102 4													
Yellow Grass	49 49	104 9						14 1		1	47 0	3	–16 0	12	20 7
Manitoba—															
Almasippi	49 14	99 20						15 1		9	47 0	4 5	–27 0	15	19 6
a Awenne	49 42	99 33	1180	28 72	29 50	28 41	1 09	13 5	–14 6	27	51 0	4	–25 0	15	21 6
Brandon	49 51	99 57	1176					10 6	–10 4	24	50 7	5	–28 2	15	22 4
Berens River	52 18	97 23	710					12 8		4	35 0	4-9	–22 0	28	15 9
Birtle	50 25	101 1	1703												
Carberry	49 52	99 20	1258					—		6	—	—	—	—	—
Carman	49 31	98 0	872												

Station	Mean temperature of dew point	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	Wind: N	NE	E	SE	S	SW	W	NW	C	Total number of observations	Mean miles per hour	Highest velocity	Date and direction	Precipitation: Amount	Difference from average	Heaviest in month	Date	No. of days	No. of days	No. of days
Saskatchewan—Continued																								
Grenfell (Brownhill)																		1 93	+0 95	0 40	11 19	0	0	0
Glenbryan (Larchmount)					0	6	1	2	1	18	10	22	0	60				2 20		0 65	6 24	0	0	1
Humboldt																								
Hubbard (Drumague)																								
Indian Head					0	1	2	0	8	19	15	38	7	90				1 08	+0 30	0 70	5 25	0	0	0
Imperial																						0	0	0
Kamsack																								
Kelvinhurst																		0 65		0 25	3 27	0	0	0
Lloydminster																						0	0	1
Luseland																		0 91		0 60	2 28	0	0	4
Lost River																		0 54		0 21	6 24	0	0	0
Moose Jaw				5	5	6	9	4	1	9	25	13	18	90				0 54		0 25	7 23	0	[illegible]	0
Moosomin					0	1	1	2	8	4	[illegible]	5	0	30								0	0	0
Munster (St. Peters Monastery)					0	5	0	1	0	22	9	22	1	60				0 60		0 29	5 25	3	[illegible]	0
Melfort																		1 70		0 70	5 25	1	0	0
Maple Creek (Divide)																		1 37		0 60	6 24	0	0	2
Onion Lake					4	2	5	2	4	1	3	9	0	30								0	1	0
Oliver																		0 18		0 14	2 28	2	0	0
Pense (Gatesgarth)					3	2	0	8	0	3	7	7	0	30				0 11		0 11	1 29	1	0	0
Prince Albert					10	3	4	0	6	9	12	1	12	60				2 26	+1 29	0 50	10 20	0	0	0
Prince (Meota)																		0 89		0 35	5 25	4	0	1
Pilger																		1 00		0 62	3 27	0	0	0
Qu'Appelle					0	0	2	2	9	13	11	23	0	60				0 80	+0 10	[illegible]	5 25	0	0	0
Quill Lake																		0 06		0 06	[illegible]			
Regina																		[illegible]		[illegible]	[illegible]			
Rathmullen																		0 48		0 20	6 23			
Rosthern																		1 20		0 40	4 26			
Swift Current				2	1	3	4	0	9	15	4	10	[illegible]	[illegible]				0 64	0 06	0 32	9 21		0	0
Saskatoon																		0 70		0 40	5 25	0	0	0
Strassburg																		0 20	–	0 20	1 29	0	0	0
Scott (Ex. Farm)																		0 25	–	0 17	2 28	0	0	0
The Pas				3	4	2	10	1	8	4	30	1	0	60				1 60	–	0 70	6 24	0	0	0
Waseca					0	3	2	3	3	5	8	6	0	30				0 57	–	0 20	6 24	3	0	0
Yorkton																								
Yarbo (Fairfield)																								
Yellow Grass																		0 46	–	0 15	6 24	1	0	0
Manitoba—																								
Almasippi																		0 80		0 20	5 25	0	0	0
a Awenne																		1 06	+0 31	0 45	10 29	3	0	0
Brandon			5	0	4	7	2	1	0	6	18	29	17	84				0 60	0 21	0 30	3 27	0	0	0
Berens River					15	2	13	1	14	6	4	5	0	60				2 65	–	1 60	4 2	0	0	0
Birtle																								
Carberry																		0 90		0 40	3 27	0	0	0
Carman																								

Cypress River	19	33	99	3	1232									
Dauphin	51	8	100	2	957		11 5 — 5 49 0	4 —11 0	15 17 2					— — 0 0 0
Hillview	49	55	100	33	1400		11 6 — 8 2 26 47 0	4 —21 0	15 19 4	4 3	8 1 9 0 2 18 18 31 0 90			1 60 +0 38 0 50 5 25 2 0 1
Minnedosa	50	15	99	50	1599	30 01 30 78 29 58 1 20	13 1 — 8 0 28 47 0	4 —22 6	15 19 4	4 —	4 1 5 0 0 0 5 17 28 60			0 83 —0 19 0 30 7 23 2 0 0
Morden	49	11	98	6	978		16 4 — 8 49 0	5 —20 0	15 19 4		7 1 2 1 1 11 16 13 8 60			1 20 — 0 60 3 27 0 0 0
Moose Horn Bay (Aitkenville)	51	15	99	33			12 9 — 2 43 0	6 —16 1	28 17 4		14 1 4 4 5 4 7 12 9 60			1 34 — 0 50 12 18 10 0 0
Ninga	49	14	99	51	1649		9 8 — 2 37 7	1 —20 0	13 20 4					1 86 — 0 65 4 26 0 0 0
Ninnette	49	24	99	38	1363									
Oak Bank	49	57	96	42	800		14 9 —12 2 15 43 7	5 —21 7	15 15 6		4 0 1 1 2 4 7 11 0 30			0 90 +0 21 0 30 4 26 0 0 0
Pipestone	49	34	100	58	1400									
Portage la Prairie	49	57	98	17	830		15 0 — 7 8 17 49 0	3-7 —19 0	15 20 0					0 98 +0 40 0 50 5 25 0 0 0
Portage la Prairie (2)	49	56	98	17										
Pierson	49	11	101	5	1531									
Stony Mountain	50	40	97	14	803		14 3 — 5 5 31 43 0	5-6 —24 0	15 22 1		6 1 3 2 10 10 15 13 0 60			0 35 —2 25 0 20 5 25 0 0 1
Swan River	52	6	101	15	1112		13 6 — 4 50 0	3 —21 0	10 16 6					1 30 — 0 60 4 26 0 [illegible]
Treherne	49	36	98	40	1212		14 8 — 6 7 16 48 0	4 —17 0	15 17 5					1 05 0 50 8 22 [illegible]
Virden	49	51	100	35	1444									
Winnipeg	49	53	97	7	760	30 02 30 78 29 60 1 18	17 9 — 6 6 36 50 8	3 —15 0	15 18 0	5 4	4 2 0 7 13 8 11 12 3 60			0 59 —0 49 0 16 7 23 0 0 2
Ontario—														
Alton	43	51	80	5	1250		28 6 — 4 4 25 62 2	12 1 6	22 16 9	6 6	4 0 16 4 15 15 34 2 0 90	II	IV 7 W	4 05 +1 18 1 54 10 20 0 0 1
Aurora	43	57	79	24	886		31 5 — 4 60 3	12 6 0	17 14 8					3 23 +0 66 0 95 11 19 0 0 0
Agincourt	43	47	79	16	590		33 7 — 2 0 15 60 0	12 12 8	17 13 4					3 45 +0 60 1 01 12 18 0 0 1
Barrie	44	23	79	41	839									
Beatrice	45	8	79	20	800		29 5 — 1 4 36 62 0	12 — 5 0	22 17 3	8 16	5 0 1 11 10 10 1 21 25 90	II	17 —	8 95 +1 27 1 50 16 14 0 0 0
Bruce Mines	46	18	83	55	595		28 1 — 4 5 13 55 0	10 — 4 0	21 15 6					4 40 +2 78 1 36 15 15 0 1 0
Birnam	43	2	81	55	600		33 8 — 2 6 27 65 4	11 14 0	13 9 7		1 2 7 4 17 5 16 8 0 60			5 41 +1 66 0 97 11 10 0 0 0
Brantford	43	10	80	21	750		33 8 — 2 8 29 66 0	11 7 0	21 14 9					1 08 —1 66 0 37 5 25 0 0 0
Bloomfield	43	59	77	21	260		33 8 — 3 0 12 60 0	12 10 0	17 13 3					2 30 0 50 8 22 0 0 [illegible]
Bancroft	45	1	77	50			— 22 57 0	12 2 0	21 —					[illegible] 04 1 50 3 27 0 [illegible]
Copper Cliff	46	30	80	59			25 1 — 4 60 0	12 — 7 0	16 19 3					4 22 1 16 9 21 0 1 [illegible]
Clinton	43	32	81	37			33 6 — 9 64 0	12 15 0	22 11 0		6 0 4 6 11 11 16 6 0 60			4 58 — 0 70 17 13 0 [illegible]
Coldwater	44	38	79	40	600		29 1 23 60 0	10 —12 0	21 20 2					1 97 2 43 0 75 7 23 0 [illegible]
Cottam	42	7	82	45	606		33 3 — 6 0 24 64 0	11 9 0	12 19 5		6 1 1 0 16 0 34 2 0 60			4 61 +[illegible] 15 1 00 11 19 [illegible]
Chatham	42	23	82	12	595		33 9 4 7 25 54 0	10 11 0	13 14 9					4 00 +1 12 0 90 10 20 [illegible]
Collingwood	44	31	80	2			32 3 — 0 7 17 65 0	12 9 0	22 15 5					1 23 0 45 7 23 0 0 [illegible]
Cochrane	49	2	81	0	946		18 8 — 1 50 0	12 —10 0	16 15 2		7 2 11 0 11 1 22 2 [illegible] 60			2 36 0 70 6 24 [illegible]
Elora	43	41	80	24	1274		30 6 — 2 8 15 63 0	11 11 0	17 14 4					5 10 +1 96 1 65 1[illegible] 17
Gravenhurst	44	54	79	20			30 0 — 2 2 40 61 0	12 — 1 0	17 17 1	8 9	10 2 4 23 17 8 15 7 4 90	III	X	6 00 +[illegible] 74 1 70 15 [illegible]
Guelph	43	33	80	16			32 4 — 2 8 24 65 0	12 9 0	13-22 12 6					2 40 +0 16 0 67 [illegible]
Grimsby	43	13	79	36			35 9 — 2 69 0	12 17 0	13 13 4					[illegible] 25 1 64 12 18
Haileybury	47	29	79	39	687	29 92 30 42 28 92 1 50	24 8 — 3 3 18 61 8	12 — 2 1	25 15 9		4 1 2 0 9 7 0 16 3 60	II	X 12 SW	1 64 +2 64 1 [illegible] 19 [illegible]
Hamilton	43	16	79	54	303		35 0 — 1 5 36 67 0	12 17 0	22 11 9					2 11 [illegible]
Haliburton	45	1	79	8	1050		27 8 — 3 5 23 59 0	12 — 7 0 17	22 17 6					
Huntsville	45	19	79	8			30 7 5 60 0	11 0 0	22 13 5					
Kenora	49	48	94	32	1102		15 3 10 38 0	26 —15 0	27 10 2					0 40 [illegible]
Kakabeka Falls	48	23	89	26	912		18 5 — 4 42 0	3 —13 0	24 19 8					[illegible]
Kingston	44	13	76	29	285	29 98 30 47 29 25 1 22	34 1 — 2 0 37 57 8	11 10 7	17 14 0		4 12 [illegible] [illegible] 2 10 18 8 0 60			[illegible]
Kinmount	44	45	78	38	920		27 4 — 9 51 0	11 —10 0	16 18 2					5 89 1 90 15 15 [illegible]
Lucknow	43	56	81	30	908		32 3 25 62 3	12 11 0	22 12 3					4 02 +0 40 0 99 18 12 [illegible]
Lake Talon	46	15	78	48			26 4 17 63 0	12 — 8 0	22 14 4					2 41 +0 96 1 8[illegible] 17 17
London	42	59	81	13	808	29 94 30 55 29 27 1 28	33 6 27 61 5	11 13 0	13 13 2	8 11	0 36 0 6 0 12 17 19 0 90			6 61 +3 78 1 43 17 13 [illegible] 0
Lakeside Home	43	40	79	21			36 5 — 6 58 0	10 19 0 17-22	13 0					— [illegible] 0
Lorne Park	43	32	79	37			36 2 — 3 65 0	12 16 0	22 15 4					2 79 0 98 7 2[illegible]
Lindsay	44	20	78	45	872		31 6 — 1 0 32 60 4	12 2 0	17 16 4	8 10	6 0 5 6 11 25 11 0 17 90	II	VI 12 SW	[illegible] 95 +0 71 0 62 14 [illegible] 1 4
Lakefield	44	25	78	15	850		34 3 28 65 0	12 10 0 17-22	16 3					3 35 +0 51 0 60 11 19 0 0 0
*Midland	44	44	79	53	750		32 8 — 4 18 0	27 15 0	16 —					5 1[illegible] +1 95 1 07 16 2[illegible] 0
Madoc	44	30	77	29	575		31 4 — 8 59 0	11 4 0	17 11 3					3 07 — 0 60 13 17 0 [illegible]
Montague	44	56	75	57			— — 2 51 5	7 4 5	17 —					3 18 — 0 83 11 19 0 0 0
Montreal River	47	8	79	20			24 9 — 1 61 0	11-12 — 8 0	21 16 7					4 76 — 0 77 [illegible] 14 0 2 0
Matheson	48	29	80	26										
*North Bruce	44	23	81	25			34 0 — 2 2 24 63 0	11 20 0	13 —		2 2 8 15 12 7 26 18 0 90			3 53 +0 32 0 82 14 16 0 0 1
North Gower	45	8	75	43										
Owen Sound	44	34	80	55	597		— — 33 —	— —	— —		9 0 0 0 4 3 [illegible] 1 0 60			1 43 [illegible] 2 12 0 35 5 25
Orillia	44	37	79	24	775		31 6 — 0 5 20 59 0	11 6 0	22 14 0		2 0 2 4 5 6 4 7 0 30			1 70 +1 8[illegible] 1 02 5 2[illegible] 0 0
Ottawa	45	26	75	12	294	29 94 30 44 29 44 1 27	30 5 — 1 8 29 60 0	12 7 0	17 12 6		1 6 18 2 2 5 16 10 0 60			[illegible] 44 +1 09 [illegible] 74 17 [illegible] 0 0
Port Arthur	48	27	89	12	644	29 93 30 58 29 30 1 28	22 9 — 4 0 31 44 0	3 — 4 0	24 17 0	7 15	3 2 3 5 2 8 14 21 2 60			1 52 +0 2 0 45 [illegible]
Port Stanley	42	40	81	13	592	30 01 30 61 29 36 1 25	35 4 — 2 6 37 60 0	12 13 2	13 13 9	8 15	1 1 6 7 2 11 18 10 1 60			4 80 +1 88 [illegible] 72 2[illegible]
Port Dover	42	47	80	13	635		33 5 — 3 1 35 61 5	10 12 5	22 13 3		2 1 3 1 4 3 14 2 0 30			[illegible] 90 +1 1[illegible] [illegible] 61 15
Port Burwell	42	39	80	55	592		35 8 — 8 62 5	11 9 0	13 10 5					[illegible]
Parry Sound	45	19	80	0	635	29 99 30 42 29 08 1 34	31 3 — 2 2 35 63 0	12 4 0 16-22	15 1		3 6 1 16 0 16 0 16 2 60			7 83 +1 8[illegible] 0 86 21 [illegible] 0 1
Point Clark	44	5	81	44	595		— — 35 —	— —	— —		9 1 7 0 11 4 11 3 0 60			
Pelee Island	41	50	82	35	585		39 1 — 2 7 33 63 5	8 11 0	30 10 3					[illegible] 90 +[illegible] 32 1 40 5 27

DEPARTMENT OF MARINE AND FISHERIES, CANADA: METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, NOVEMBER, 1914

Station	Latitude N.	Longitude W.	Height of barometer	Pressure: Mean	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Difference from average	Date	Highest	Date	Lowest	Date	Mean daily range	Wind, sunshine and precipitation
ONTARIO—Continued																
Paris	43 12	80 25	840					34.3	+2.1	22	64.0	12	14.0	22	14.0	[illegible]
Peterboro	44 17	78 19	722					32.8		11	60.0	11, 12	4.0	17	17.9	[illegible]
Porcupine	48 29	81 18						18.7	—	1	55.0	12	14.0	25	16.3	[illegible]
Providence Bay	45 40	82 14						28.8		1	54.0	12	2.0	28	16.7	[illegible]
Bonville	45 15	78 57	1038					30.1	—	4	62.0	11	3.0	21	15.7	[illegible]
Renfrew	45 26	76 39	416					29.2	+4.1	22	61.0	11	2.0	17	14.6	[illegible]
Stonecliffe, Rockliffe	46	78 6	557	29.90	30.39	29.02	1.37	26.7	−2.6	22	60.0	12	1.0	17, 22	16.5	[illegible]
Southampton	44 30	81 21	656	29.94	30.53	29.16	1.37	34.7	2.2	35	70.0	12	12.1	22	12.6	[illegible]
*Sarnia	42 59	82 24	586													
Stratford	43 23	81 0	1191					31.6		16	62.5	12	11.0	22	12.0	[illegible]
Stoney Creek	43 13	79 45	292					36.6	−2.7	27	68.0	12	16.0	22	13.7	[illegible]
Schreiber	48 50	87 15						22.2	—	9	45.2	10	−9.2	28	20.2	[illegible]
Shelburne	44 5	80 47						29.5		3	61.5	12	6.0	22	12.4	[illegible]
Scarboro Jct	43 44	79 13						33.3	—	2	59.0	10, 11	10.0	17	13.4	[illegible]
Toronto	43 40	79 24	350	29.97	30.55	29.26	1.29	35.9	−1.5	70	62.3	10	17.6	17	13.0	[illegible]
Uxbridge	44 5	79 08	886					30.9	—	6	59.0	11	5.0	22	12.6	[illegible]
Uplands	45 48	79 25						26.6	−5.4	26	60.0	12	−1.0	16	18.9	[illegible]
Ursa	44 54	78 18						31.4		3	50.0	5	4.0	22	11.6	[illegible]
White River	48 35	85 16	1252	29.87	30.42	29.12	1.30	17.7	+4.8	23	38.0	3, 10	−22.0	16, 21	17.9	[illegible]
Woodstock	43 8	80 47	980	29.94	30.57	29.30	1.27	33.1	−2.2	39	64.5	12	7.0	22	15.7	[illegible]
Welland	42 56	79 17	577					35.7	−1.3	25	64.0	11, 12	16.0	13, 22	12.1	[illegible]
Windsor	42 20	83 4	625					36.1		37	65.0	14	14.0	13	12.3	[illegible]
Wallaceburg	42 35	82 24								6						
QUEBEC																
Abitibi	48 35	79 22						19.2	−5.0	16	52.0	12	15.0	22	14.1	[illegible]
*Anticosti, E. Pt.	49 6	61 42	30													
*Anticosti, W. Pt.	49 52	64 32	30					28.5	−1.9	29	41.0	7	10.0	27	—	[illegible]
Brome	45 10	72 36	678					30.2	−1.1	31	67.0	12	8.0	17, 23	13.0	[illegible]
*Bicquet	48 25	68 53						28.3	—	30	52.0	12	11.0	30	—	[illegible]
Clarke City	50 10	66 25														
*Cape Chatte	49 6	66 45						26.9	−4.9	30	41.0	12	14.0	30	—	[illegible]
*Cape Magdalen	49 16	65 20	93					27.6	2.9	30	47.0	7	9.0	27	—	[illegible]
Chicoutimi	48 25	71 5	150					25.0	−1.1	32	50.4	13	2.9	30	11.6	[illegible]
Chicoutimi (2)								25.3		1	51.0	12	3.0	29, 20	11.4	[illegible]
Cap Rouge	46 46	71 18						26.7	—	4	52.0	13	7.2	26	11.9	[illegible]
D'Israeli	45 55	71 21						28.6	—	1	64.0	13	5.0	23	14.9	[illegible]
Father Point	48 31	68 29	20	29.83	30.47	28.99	1.48	27.9	−1.5	34	62.7	13	8.6	27	12.9	[illegible]
Lake Edward	47 39	72 15	1333					21.3	—	2	55.8	13	−9.5	30	14.9	[illegible]
La Tuque	47 35	72 50	530					23.9	—	1	56.0	13	−2.0	30	15.2	[illegible]
Montreal	45 30	73 35	187	29.96	30.41	29.09	1.32	31.9	−1.2	37	61.6	12	10.0	12	11.1	[illegible]
Perkin's Mills	45 38	75 38														
Quebec	46 48	71 12	296	29.89	30.44	29.04	1.40	28.0	−1.8	37	56.5	12	9.5	30	12.0	[illegible]
Roberval	48 31	72 13	352													[illegible]
St. Anne de Bellevue	45 27	73 5						31.7	—	6	65.0	12	7.0	17	10.4	[illegible]
Shawinigan Falls	46 34	72 43						25.8	—	10	60.0	12	1.0	23	14.2	[illegible]
Sherbrooke	45 32	72 5	620					30.6	—	9	65.0	13	9.4	17	13.9	[illegible]

New Brunswick—																																									
Chatham	47	3	65	29	21	29 86	30 56	28 90	1 66	30 7	-- 2 0	37	64 5	13	7 5	26	15 4		6	7	4	5	7	4	0	12	16	11	1	60				4 48	+0 66	1 20	13	17	0	0	0
Dalhousie	48	4	66	22	39					28 0	— 0 5	35	46 0	8	7 0	26	11 2				0	0	5	3	0	1	18	1	2	30				3 60		1 26	5	25	0	0	0
Fredericton	45	57	66	36	164	29 91	30 56	29 03	1 53	30 5	— 2 0	36	60 5	13	6 8	26	17 3	86	7	7	3	4	7	7	3	12	29	19	6	90	10 5	27 3	17 SW	5 10	+1 07	1 40	11	19	0	1	0
Grand Manan	44	47	66	46	49	29 92	30 48	29 05	1 43	38 7	— 0 1	26	61 0	17	18 0	26	16 2		6	2	5	5	6	3	1	7	14	17	2	60				4 47	− 1 13	1 05	13	17	0	0	0
Moncton	46	9	64	45	50					31 1	— 3 4	14	64 0	12	10 0	25	17 6				1	3	3	3	1	2	2	15	0	30				2 90	—0 36	0 70	9	21	0	0	0
*Point Lepreaux	45	4	66	28	30					36 3	— 1 2	33	52 0	7	19 0	25	—		6	7	8	8	3	6	2	10	16	25	0	78	IV	VI	15 SW	4 10	+0 45	1 00	9	21	0	0	0
St. John	45	17	66	4	70	29 89	30 53	29 00	1 53	35 5	— 1 2	37	58 4	13	16 0	26	13 5		6	6	7	5	2	4	2	13	6	19	2	60				4 82	+0 11	1 19	9	21	0	0	0
St. Stephen	45	11	67	16	35					33 8	+ 0 4	14	63 0	12	6 0	26	15 7																	3 79	+0 43	1 15	8	22	0	0	0
Sussex	45	38	65	38	69					33 8	— 0 4	14	63 0	13	9 5	26	20 0				0	1	1	0	1	3	6	1	17	30				1 31	+0 58	1 85	6	21	0	0	0
Nova Scotia—																																									
Antigonish	45	38	61	59	50						—	1																											0	4	
Halifax	44	39	63	36	88	29 88	30 51	28 90	1 61	37 7	— 2 0	36	58 8	13	19 3	26	15 0				3	9	2	2	4	6	11	19	1	60				9 83	+3 95	2 65	18	12	0	1	1
Port Hastings	45	39	61	22	45							20									1	5	0	3	0	5	0	16	0	30				3 78	0 42	0 95	6	21	0	0	0
Parrsboro'	45	23	64	19	40					24 9	- 2 9	15	59 0	7	15 0	3-29	14 5																								
Sydney	46	10	60	10	35	29 85	30 55	28 79	1 76	37 1	— 1 8	38	59 5	13	15 5	28	14 2		8	14	2	3	2	1	1	13	20	13	5	60				8 52	3 08	2 18	14	16	0	0	
*Sable Island, E. Pt	43	58	59	46	25					44 8		28	59 0	7	33 0	3-26	—				0	14	0	20	2	15	0	39	0	10				5 21	—	1 51	9	21	0	0	
Truro	45	22	63	18	77					35 4	— 0 7	36	60 5	13	11 2	4	18 0				4	9	10	6	9	19	19	7	7	90				6 67	+2 42	1 37	16	14	0	0	1
Windsor	44	59	64	6	90					36 7	—	9	61 0	8-13	16 0	26	14 7																	5 41	—	0 93	15	15	0	0	0
*Whitehead	45	15	61	8	20					37 6	— 2 5	28	52 0	1	22 0	26	—																	7 15	+2 76	2 00	10	20	0	0	1
*a*Wolfville	45	7	64	20		29 81	30 45	28 88	1 57	36 0	— 1 0	12	62 8	13	16 8	23	16 4				7	3	4	2	4	7	10	17	6	60				3 20	−0 81	0 83	9	21	0	0	1
Yarmouth	43	50	66	2	65	29 93	30 49	29 13	1 36	40 1	— 0 1	31	59 0	13	24 4	28	13 3				8	3	6	4	5	4	11	10	6	60				6 28	+1 30	1 39	16	14	0	0	1
P. E. Island—																																									
Charlottetown	46	14	63	10	38	29 85	30 53	28 86	1 67	34 5	— 1 7	36	56 0	13	14 0	27	12 2				4	3	2	5	5	13	7	19	2	60				5 57	− 1 17	1 15	10	14		0	
Charlottetown (2)	46	14	64	7	75					33 7	—	2	58 5	13	13 0	27	13 3																	5 66		1 53	16	14			
Hamilton	46	25	63	48																																					
Newfoundland—																																									
*Armour Point	51	28	57	51																																					
Burin	47	0	55	10	27	29 84	30 52	28 66	1 86	35 6			53 0	8	9 0	28	19 6				8	5	1	3	9	14	6	16	0	60				7 64							
*Cape Norman	51	38	55	52																																					
Fogo	49	43	54	17	30	29 76	30 51	28 29	2 22	32 9		2	52 0	8 25	18 0	15	10 0				7	6	0	2	4	9	11	15	0	54				7 [illegible]							
*Point Rich	50	42	57	25	35					30 9		27	49 0	13	11 0	30	—				11	5	8	6	9	21	8	22	0	90				[illegible] 61							
Port aux Basques	47	35	59	10	27	29 78	30 51	28 86	1 65	33 3	—	2	48 0	13	14 5	28	10 6				9	1	7	5	3	4	16	15	5	60				8 91							
St. John's	47	34	52	42	125	29 71	30 44	28 56	1 88	35 2	- 2 4	37	55 0	8	20 0	28 29	12 4		6	6	2	5	0	5	5	20	8	14	1	60				7 74							
Bermuda—																																									
Prospect	32	17	64	46	151	30 13	30 35	29 71	0 64	69 3	+ 1 1	20	80 0	1	58 6	28	9 9				9	10	6	5	11	5	1	1[illegible]	[illegible]	60											

[illegible] Stations reporting Rain, Snow, Weather, &c., during November, 1911.

Station	Rainfall: Amount	Rainfall: No. of Days	Rainfall: No. of Fair Days	Rainfall: Heaviest in 24 hours	Rainfall: Date	Snow: Amount	Snow: No. of Days	Snow: Heaviest in 24 hours	Snow: Date	Remarks
[illegible]		3	2?	[illegible]	21				[illegible]	
[illegible]		[illegible]	10	?.88	[illegible]				5?	
[illegible]	?.8?	1?	24	1.0?	14	13.4			1?	
[illegible]			13	1.16	17	[illegible]			8	
[illegible]			9?	?.5?	[illegible]	2.?			1?	
[illegible]			16	?.10	18	8.?			14	
[illegible]	4		[illegible]	2.23	?2	11.?	3	3	8	
[illegible]	[illegible]		1?	?.38	4	31.3	[illegible]	[illegible]	5	
[illegible]	4.?	[illegible]	2?	1.25	2?	24.9		2.?	12	
[illegible]	[illegible]	2	8	4.02	18	8.5			8	
[illegible]	[illegible]	[illegible]	[illegible]	?.88	17	16.9		3	12	
[illegible]	3.8		1?	1.5	[illegible]	21.?			12	
M[illegible]	.44		23	?.40	6	15.0	4		13	
N[illegible]										
[illegible]										
[illegible]	4.?	[illegible]	[illegible]	1.?3	13	?.0	4	[illegible]	1?	
[illegible]										
B[illegible]						4.0			8	
[illegible]	.24	3?	26	0.21	3	4.6		[illegible]	8	
[illegible]	.8?	[illegible]	24	0.08	1	5.?	2?	[illegible]	6.16?	
[illegible]	.?	1	24	0.09	4	3.5	[illegible]		7	
[illegible]	.2	[illegible]	2?	0.12	4	11.5	[illegible]	4	7	
[illegible]										
[illegible]										
[illegible]	.11	1?	24	0.11	4	3.9	[illegible]	[illegible]	2?	
[illegible]						2?.?	6	4	8	
[illegible]	[illegible]	[illegible]	27	0.30	1	4.5	[illegible]	4	10	
[illegible]	.?7	1	18	0.07	3	5.1	11	1	6	
[illegible]	.55	2	23	0.30	7	5.?	3	[illegible]	12	
[illegible]										
[illegible]										
[illegible]	.??	1	25	0.??	5	6.5	4	[illegible]	8	
[illegible]	.56	1	27	0.56	4	?.5	2		10	
[illegible]						2	1		7	
M[illegible]						11.?	8	4	26	
M[illegible] M[illegible] R[illegible]										
M[illegible]	.?	1	24	0.02	18	19.0	5	?.5	8	
N[illegible]						6.3	4	[illegible]	9	
[illegible]	.77	1	28	0.75	4	3.?	[illegible]		7	
P[illegible]						13.?	8	4	8	
P[illegible]	.12	1	26	0.12	6	8.0	3	4	7	
P[illegible]										
P[illegible] Creek						11.0	[illegible]	[illegible]	8	
S[illegible]	.15	2	21	0.08	3	11.5	7	5.?	6	
S[illegible] Portage						12.5	[illegible]	?.5	7, 9	
T[illegible]										
Saskatchewan										
[illegible]										
[illegible]										
[illegible]										
[illegible]										
[illegible] Lake						19.0	4	8	[illegible]	
[illegible]										
Ha[illegible]										
K[illegible]										
Last Mountain										
M[illegible] Creek	.1	1	22	0.04	5	10.2	7	[illegible]	8	
M[illegible] Lake						6.8	2	4.?	5	
Willow Creek	.0?	1	27	0.03	3	6.0	2	[illegible]	14	
Manitoba										
[illegible]						10.0	5	?.5	10	
D[illegible]						10.3	6	3.3	19	
[illegible]										
N[illegible] Lake						8.0	4	4	11	
Rapid City						8.9	5	7.1	9	
Rose Bank										
Ontario										
[illegible]	.?	6	20	0.97	7	4.0	4	1.?	15	
[illegible]	2.?0	4	24	1.25	6	15.0	2	[illegible]	1	
[illegible]	.2?	8	13	1.50	7	15.8	9	4.?	26	
[illegible]	?.0?	8	15	0.97	6	8.9	7	4	17	
Gravelhurst	.74	8	18	0.59	18	4.6	4	2.?	21	
[illegible]	.6?	7	17	1.00	7	9.0	6	[illegible]	19	
Ma[illegible]	.70	7	20	0.52	6	7.0	[illegible]	[illegible]	14	
Orangeville	?.?9	6	16	0.72	7	12.4	8	4.8	17	
Princeton										
Sydenham	?.65	6	20	1.70	17	10.0	4	4.?	14	
S[illegible]	?.88	7	14	1.08	6	18.0	9	?.5	2	
Watford	4.13	6	24	1.22	6					
Westport	1.88	6	19	0.82	6	8.6	5	2.5	14	
Westminster	.42	4	22	1.46	7	17.0	4	[illegible]	15	
Woodler	?.75	7	21	0.98	6	4.0	2	2.0	14	
W[illegible]	?.7	6	15	1.07	7	23.5	9	7	19	
Quebec										
Kipawa										
[illegible]										
Perkins Mills	?.56	6	21	1.25	6	1.3	3	0.7	14	
Quinze Dam	?.77	5	18	1.60	12	21.5	9	8.?	18	
Timiskaming	?.24	4	20	1.09	11	16.5	6	4.?	17	
New Brunswick										
Point Escuminac	1.28	5	21	0.47	7	8.3	4	[illegible]	25	
Nova Scotia										
Big Mushamush Lake, Mahone	6.42	3	26	?.50	15	5.0	1	5.?	30	
Kentville	4.1	8	17	0.86	19	5.8	5	?.5	22	
Kedgemakooge Lake, New Grafton	4.?8	7	20	1.55	25	6.0	[illegible]	?.5	3	
Liverpool, Indian Gardens										
Milton	9.?1	9	21	2.18	7					
Mushamush River, Mahone	6.25	[illegible]	26	?.45	15	4.0	1	4.0	30	
Smith's Cove	8.35	9	21	2.00	18					
White Rock	4.?5	7	23	1.03	18					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF NOVEMBER, 1911

STATION	Hours Ending													
	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.
Victoria			13	19	27	27	29	34	26	18	02			
Salmon Arm		01	08	21	27	30	30	31	23	15				
Nanaimo				04	15	14	18	13	12	08	T			
Vancouver		01	11	17	17	17	20	23	19	12	02			
Agassiz			05	18	31	26	17	10	11	09				
Tranquille		08	25	32	38	40	48	41	16	05				
Summerland		07	17	24	35	42	39	36	30	09				
Kamloops			07	28	47	45	40	39	36	06				
Edmonton		02	30	56	61	59	58	52	40	19	01			
Lethbridge		11	40	48	46	40	45	33	33	28	05			
Lacombe		02	13	23	39	35	41	35	31	28	11			
Medicine Hat			17	37	51	53	51	47	40	17				
Fort Dunvegan			03	17	28	42	47	49	41	09				
Fort Vermilion			08	36	49	59	56	50	04					
Battleford		10	38	59	63	61	56	44	32	22	02			
Indian Head		01	15	32	46	51	57	57	54	24	02	01		
Moosejaw	03	37	53	57	56	57	54	54	40	07				
Scott		09	37	42	47	46	47	48	32					
Rosthern		19	42	56	56	60	56	55	51	36	05			
Brandon	T	24	58	56	61	66	62	50	43	21	02			
Winnipeg		04	29	40	47	56	54	47	43	11	17			
Haileybury		05	13	13	18	16	19	25	15	12	06			
Woodstock		02	08	22	27	38	35	33	30	20	05			
Lindsay			10	27	30	31	32	32	35	29	13	02		
Barrie		09	24	26	30	28	28	27	25	14				
Toronto		03	18	25	31	43	48	41	31	26	05			
Kingston		02	11	22	26	33	33	33	28	30	17	01		
Ottawa		05	25	34	33	41	36	38	30	24	05			
Montreal		01	16	31	34	33	37	33	30	24	03			
Cap Rouge		06	23	24	22	22	29	25	21	13	03			
Quebec		02	23	26	26	28	36	34	30	20	07			
Sherbrooke		04	23	24	25	25	26	25	24	13	T			
Fredericton		08	26	45	45	52	47	49	37	22	11			
Charlottetown		08	23	27	22	25	26	27	27	23	13			

	Victoria.	Salmon Arm	Nanaimo	Vancouver	Agassiz.	Tranquille.	Summerland	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Fort Dunvegan	Fort Vermilion	Battleford	Indian Head	Moose Jaw	Scott	Rosthern.	Brandon	Winnipeg	Haileybury	Woodstock	Lindsay	Barrie.	Toronto	Kingston	Ottawa.	Montreal	Cap Rouge.	Quebec.	Sherbrooke	Fredericton.
Registered duration in hours	59	62	26	42	38	78	72	74	113	96	75	94	71	89	116	104	125	106	131	133	113	47	66	73	63	82	71	81	73	57	70	57	102
Percentage of possible duration	21	23	9	15	14	29	27	28	44	35	29	35	29	38	45	39	46	41	50	49	42	15	23	25	22	28	25	29	28	20	24	20	36
Difference from average %	+0				−5										+11	+15				+17	+7		−3	−0	+2	−1	−2	+1	−2				+4
Maximum percentage in one day	85	73	62	80	57	80	93	72	96	96	97	82	81	89	95	87	92	98	98	89	96	97	91	77	68	84	90	96	89	79	80	77	88
Date of maximum	21	27	4	21	1	20	1	20	17	11	1	22	1	29	1	1	11	19	2	2	17	3	3	1	3	16	22	3	3	17	13	5	20
Number of days completely clouded	13	14	22	15	18	11	9	9	5	5	8	6	11		6		7	5	9	5	3	10	15	15	13	11	7	13	9	10	11	12	15	10

[illegible] *I [illegible] brightest, IV the feeblest* [illegible]

1. [illegible] I, Fort Qu'Appelle IV.
2. A[illegible] [illegible] III, Muenster I.
3. A[illegible] III, Quebec IV, Fort Vermilion III, Fort Qu'Appelle IV.
4. [illegible] Aitkensville III.
5.
6.
7.
8.
9.
10.
11. [illegible] Qu'Appelle IV.
12. [illegible] IV, Hillview I, Aweme II, Treherne III, Aitkensville III, Fort Vermilion I.
13. K[illegible] Falls IV, Schreiber III, Waitefield IV, Carcross, Brilliant, Aitkensville IV, Minnedosa II, M[illegible] III, Fort Qu'Appelle IV.
14. Schreiber IV, Hillview I, Treherne IV, Sion IV, Aitkensville IV, Waseca, Prince IV, Muenster IV, M[illegible] IV, Fort Vermilion.
15. Sion IV, Aitkensville IV, Minnedosa III, Yellow Grass, Fort Qu'Appelle IV.
16. Sion IV, Waseca, Oliver.
17. Sion IV.
18. Sion, P[illegible] II, Gatesgarth III.
19. Waitefield IV, Oliver.
20.
21. Sion, Prince IV.
22. Prince IV.
23. Sion.
24. Waitefield IV, Sion, Fort Vermilion III.
25. Hillsdown IV, Waitefield IV, Sion, Aitkensville IV, Waseca.
26. Waitefield IV, Aweme IV, Sion, Campsie IV.
27. Sion, Gravenhurst I, Aitkensville IV, Cape Magdalen.
28. Sion.
29. Sion.
30. Sion, Aitkensville IV.

T[illegible] hal.

1.
2.
3.
4.
5.
6.
7.
8. Fredericton.
9.
10. Quinze Dam.
11. Potestone, North Bruce, Copper Cliff, Paris, Montreal River, Elora, Bruce Mines, Westport, Uplands.
12. Montreal River, Brome, D'Israeli, Montreal, Parry Sound.
13.
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FORECASTS FOR NOVEMBER, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1333. These were divided as follows:

District.	No. Issued	Verified			
		No. Full	No. Partly	No. Not	Per Centage
Alberta	79	64	12	1	88.6
Saskatchewan	81	63	15	1	87.0
Manitoba	87	71	11	5	85.0
Lake Superior	119	94	22	3	87.4
Georgian Bay	130	108	17	5	89.6
Ottawa Valley	108	84	19	5	87.8
Upper St. Lawrence	108	86	17	5	87.5
Lower Lake Region	131	105	22	4	88.5
Lower St. Lawrence	123	93	27	3	89.1
Gulf	120	91	27	2	87.5
Maritime Provinces West	123	84	37	5	84.9
Maritime Provinces East	124	92	26	6	84.7
Total	1333	1029	252	52	86.6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
December 21, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.
METEOROLOGICAL SERVICE.

Monthly Weather Review

VOL. XXXV. DECEMBER, 1911 No. 12.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D. C.

TEMPERATURE.

BRITISH COLUMBIA.

On the Upper Fraser and in the Cariboo region of British Columbia temperatures below zero were recorded on the 17th, 23rd, 28th, 29th, 30th and 31st; 19° below, 20° below and 30° below were the lowest temperatures registered respectively at Chilcotin, Barkerville and Quesnelle. In the Okanagan Valley the last three days were very cold, but temperatures below zero were recorded on the 31st only. In the Kootenays, however, and on the north branch of the Columbia, on the majority of the days of the last week minimum readings were below zero at many stations. Along the Lower Fraser minima ranged from 10° to 20°.

The mean temperatures were lower than the average except over a small part of Vancouver Island and a portion of the coast of the mainland. In the extreme southwest the difference from average amounted to more than 5°, and in the Cariboo region to more than 3°.

THE WESTERN PROVINCES.

In Alberta mean temperatures in the mountains were about 6° below average, and in the northwestern portion of the province about 3°. At Medicine Hat and Calgary temperature conditions were normal, while in the eastern portion there was an excess over average of about 1°.

In Central and Southeastern Saskatchewan the mean temperatures were from 2° to 4° above average, while at Prince Albert and Battleford and the regions north of those towns they ranged from 1° above to 1° or more below normal.

In Northwestern Manitoba the excess over average temperature was barely 1°, but this increased to 5° in the eastern districts.

[illegible] very cold throughout the Western Provinces [illegible] severe cold [illegible] Alberta and Saskatchewan about [illegible] and in Manitoba about the [illegible] until after the close of the [illegible]. At several places the highest [illegible] were 30 below zero and temperatures as low as 50 below [illegible].

[illegible]

[illegible] Ontario mean temperatures were [illegible] high, exceeding the normal [illegible] greatest differences from average occurred in the Lake Temiskaming [illegible] temperatures from 5 to 10 below zero were recorded in the Georgian [illegible] eastern Ontario. In the Lake Superior districts weather of similar severity [illegible] Manitoba during the last week of the [illegible] obtained at the same time [illegible] the weather in the southern counties was exceptionally mild, maxima ranging [illegible]

[illegible]

[illegible] and at Montreal, and in the "Eastern Townships" the differences from [illegible] very large. There was an excess over average throughout the Province of Quebec [illegible] 10 at Montreal and Brome to 5 in the Gulf of St. Lawrence. In this [illegible] temperatures were exceptionally high from the 9th to the 12th, maxima ranging [illegible] 58 [illegible] western counties. On the 4th and 5th, the 29th and 30th and 31st, temperatures [illegible] below zero in many districts. At Lake Edward the lowest recorded was 22 [illegible] Quebec City 8 below.

THE MARITIME PROVINCES.

Mean temperatures exceeded the average by from 4 to 8 in New Brunswick and by 4 in Prince Edward Island. In Nova Scotia, however, the range of difference from normal was from 0.5 [illegible]. Minima of zero or slightly below were recorded at some places in New Brunswick on the 21st [illegible] Nova Scotia and Prince Edward Island no severe cold was experienced.

*[illegible] highest and lowest temperatures recorded in each Province during the month of **December**, 1911.* [illegible]

	HIGHEST.		LOWEST.	
British Columbia	59	at Kamloops on the 7th.	40	at Fort St. James on the 29th.
Alberta	65	at Alix on the 3rd.	50	at Fort Vermilion on the 28th.
Saskatchewan	47.4	at Maple Creek on the 5th.	51	at The Pas on the 29th.
Manitoba	45	at Ninette on the 9th.	50	at Swan River on the 29th.
Ontario	63	at Stoney Creek on the 8th.	30	at Kenora and White River on the 29th.
Quebec	57.5	at Ste. Anne de Bellevue on the 11th.	23	at Abitibi on the 30th.
New Brunswick	59	at St. Stephen on the 12th.	— 7.5	at Chatham on the 31st.
Nova Scotia	62.5	at Wolfville on the 13th.	3	at Pt. Hastings on the 29th.
P. E. Island	53	at Charlottetown on the 12th.	7	at Charlottetown on the 29th.

ATMOSPHERIC PRESSURE

The mean value of the atmospheric pressure for December exceeded the normal throughout Canada, except in Central and Northern British Columbia, and over the greater part of Alberta, where the average was not reached. Positive departures from average were nearly 0.10 of an inch in the Maritime Provinces, and somewhat less elsewhere. Negative differences in British Columbia and Alberta were from 0.03 to 0.07 of an inch. Extremes of differences from normal at the telegraph stations were —0.07 of an inch at Kamloops, B.C., and —0.10 of an inch at Yarmouth, N.S.

LOW AREAS.

Fourteen areas of low pressure were charted, six first appeared on the far northern British Columbia coasts and Alaska, one on the north Pacific United States coast, four in the vicinity of the west coast of the Gulf of Mexico, one in Southern Saskatchewan, one over Lake Superior, and one in Northern Maine. Five areas passed north of the Great Lakes, four over them and two to the southward. Some few of the systems were very energetic, chiefly during the latter half of the month, but as a whole they were not important, and strong winds and gales were not as prevalent as in the preceding month of November.

HIGH AREAS.

Six areas of high pressure were charted. One appeared in the Yukon Territory, one to the northward of Manitoba, and four on the United States Pacific Coast. One area passed north of the Great Lakes, two over and three south of the Great Lakes. The areas from the Pacific were remarkable for the persistency with which they hovered over the Pacific States, while the area which appeared in the Yukon Territory on the 25th, and subsequently spread over the larger portion of the continent, caused winter weather to set in generally over the Dominion after a long period of unusually mild conditions.

PRECIPITATION.

On Vancouver Island there was a marked deficiency of rainfall, amounting to more than half of the normal amount. Over the mainland of British Columbia, however, there was, generally, no lack. In Central Saskatchewan, Alberta and Manitoba less than the normal amount was recorded. In the Georgian Bay counties of Ontario, and also in some eastern districts, the deficiency was considerable, while in other parts of the same province there was a small excess. Along the River St. Lawrence there was a small excess, but elsewhere in Quebec less than average precipitation occurred. In the Maritime Provinces there was a general and pronounced deficiency.

DEPTH OF SNOW ON THE GROUND.

At the close of the month the ground was snow-covered from Alberta to Northern New Brunswick, with the exception of a few scattered localities, principally in the extreme southwest counties of Ontario. The depth on the ground was generally from 2 to 4 inches, but in the Gaspé Peninsula, the western part of Algoma, and in Keewatin over 20 inches were reported.

THICKNESS OF ICE.

Thickness of ice is reported as follows:

Western Provinces.—Battleford, 20 inches; Swift Current, 20; Moose Jaw, 23; Qu'Appelle, 16; Minnedosa, 18; The Pas, 11.

Ontario.—Port Arthur, 15 inches; Cochrane, 7; Southampton, 2; Port Stanley, 2; Ottawa, 5; Georgetown, 3; Clinton, 2½.

Maritime Provinces.—Chatham, 6 inches; Fredericton, 9; Sydney, 5; Charlottetown, 3; St. Stephen, 9; Sussex, 6; Point Le Preaux, 3.

WINDS, DECEMBER, 1911

PROVINCES AND STATIONS	Total Mileage	Greatest Mileage in 24 hours	Greatest Mileage in one hour.	Number of days of Gales.	Number of days of Strong Winds.	Number of days of Fresh Winds	General Direction.
British Columbia							
Victoria	6310	404	34	3	7	12	E.
Point Gatry	6571	506	38	5	5	9	E.
Alberta.							
Edmonton	3714	341	18		2	3	SW. & NW.
Calgary	3661	343	23		2	4	W. & NW.
Saskatchewan							
Battleford	4835	401	26		4	7	SE.
Prince Albert	1948	116	8				SE.
Qu'Appelle	6782	411	25		8	6	SE. & SW.
Manitoba							
Winnipeg	6814	402	32	1	6	11	SW. & W.
Ontario.							
Port Arthur	6758	423	30	1	8	7	NW.
Parry Sound	6506	458	33	1	5	5	SW.
Southampton	10154	678	43	3	11	7	S.
Woodstock	7749	610	31	2	7	5	SW.
Toronto	11247	896	47	6	14	5	SW. & W.
Quebec.							
Quebec	11631	725	43	11	8	5	NE. & SW.
Father Point	12597	866	50	13	9	5	W.
Maritime Provinces.							
Fredericton	6854	775	41	4	4	4	NW.
St. John	10516	1071	55	6	1	6	NW.
Point Lepreaux	14628	1190	56	14	10	5	N.
Halifax	9374	780	41	5	11	4	N. & NW.
Flat Point	15116	1092	57	19	11	2	N. & NW.
Charlottetown	5855	480	25		6	8	NW.

DEPARTMENT OF MARINE AND FISHERIES, CANADA: METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA DECEMBER 1911

a Barometer not reduced to Sea Level. *Stations not furnished with Registering Thermometers.

Station	Latitude N.	Longitude W.	Elevation above sea level in feet	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Difference from average	Yrs.	Highest	Date	Lowest	Date	Mean daily range	Precipitation (total)
British Columbia —																
Alberni (Beaver Creek)	49 15	124 49	300					36.5	+2.1	16	49.0	11	21.0	31	[illegible]	[illegible]
Agassiz	49 14	121 31	52					30.2	−2.1	21	53.0	6	10.0	30	13.6	[illegible]
Atlin	59 35	133 38	2240	29.78	30.59	29.13	1.46	19.4		6	42.0	12	18.0	28	[illegible]	[illegible]
Akamina																
Barkerville	53 2	121 35	4180	29.91	30.36	29.27	1.09	18.9	−3.7	23	40.0	2 3	20.0	31	10.8	[illegible]
Bella Coola	52 10	126 54	150					30.9	−1.0	13	44.0	12	9.0	28, 31	7.4	[illegible]
Babine Lake	55 38	126 26														
Boswell	49 19	116 11														
Chilcotin (Big Creek)	51 40	123 0	3100					18.0		8	47.0	1	19.6	29	22.3	1.25
Cranbrook	49 30	115 50						20.8		3	43.0	19	27.0	31	19.4	[illegible]
Clayoquot	49 11	125 47	40					40.7	2.4	12	54.0	11	25.0	31	10.3	[illegible]
Cowichan (Tzouhalem)	48 25	123 42	170					40.0		5	53.0	11	25.6	24	9.0	[illegible]
Chilliwack	49 10	121 57	21					37.0		9	54.0	22	16.0	30	6.7	[illegible]
Crawford Bay	49 45	116 45	2000					27.8		2	41.0	19	6.0	29	[illegible]	[illegible]
Enderby	50 32	119 7	1180					25.4		8	40.0	5	19.0	31	15.8	[illegible]
Fort St. James (Stuarts Lake)	54 28	124 12	2280					19.3		19	45.0	3	40.0	29	[illegible]	[illegible]
Fairview	49 11	119 36						13.0		5	40.0	1	4.0	18, 19	[illegible]	[illegible]
Fruitvale	49 9	117 31														
Glacier	51 14	117 29	1072					17.7		9	31.0	14	13.0	31	[illegible]	8.55
Golden	51 16	116 55	2550					15.5		10	37.0	8, 20	33.0	31	11.1	1.35
Grand Forks	49 2	118 27						23.6		1	39.0	8	−5.0	31	14.5	2.84
Greenwood	49 5	118 40														
Holberg	50 39	128 18						39.7		6	49.3	1	24.3	31	5.6	[illegible]
Hedley	49 35	120 10	1771					26.1		8	44.0	12	7.[illegible]	31	10.6	1.4
Hedley — Nickel Plate								17.8		8	8.0	2	10.0	29	13.0	
Hope	49 23	121 25						33.5		2	47.0	8	10.0	29, 30	6.6	[illegible]
Ikeda Bay	52 17	131 7	5													
Kamloops	50 41	120 25	1245	30.02	30.51	29.36	1.15	27.0	−3.5	21	53.0	7	7.1	31	10.9	[illegible]
Ladner	49 5	123 4						40.8		19	57.0	11	25.6	31	8.8	[illegible]
Massett, Q.C.I.	53 58	132 9	30					39.0	0.2	14	52.0	4	18.0	31	8.5	[illegible]
a Nanaimo	49 10	123 57	125	29.95	30.48	29.33	1.15	40.2	+0.9	11	55.0	8	28.0	31	8.7	7.15
Nicola Lake	50 9	120 39	2120					29.5	+1.9	16	49.0	9	−4.0	30	12.4	1.32
North Nicomen	49 12	122 2	59					38.1	−0.3	18	53.0	8	17.0	30	8.6	9.13
New Westminster	49 13	122 51	330					36.9	−1.7	24	50.5	8	20.0	31	6.8	[illegible]
Nelson	49 29	117 21	1760					27.6		8	40.0	1	5.0	31	7.5	2.45
Needles	49 40	118 9						31.7		3	40.0	24	15.0	25, 31	8.7	2.10
Okanagan Mission (Kelowna)	49 52	119 29	1200					26.6	−4.5	12	40.0	7	−3.0	31	11.0	1.45
Princeton	49 29	120 29	1650					21.8	−0.4	17	40.0	8	−8.0	29	14.2	0.65
Penticton	49 29	119 35						30.5		5	45.0	1	10.0	24	9.9	0.92
Pemberton Hatchery	50 20	122 33						29.7		4	40.0	2, 22	10.0	29	6.0	2.82
Prince Rupert	54 18	130 18	170	29.79	30.26	29.25	1.01	37.0		2	55.0	3	11.0	30	7.0	17.19
Quesnelle	52 59	122 30	1700					21.4	−3.2	16	42.0	2, 23	−30.0	31	14.5	2.35
Revelstoke	51 0	118 6	1476					25.6		12	38.0	8	−0.5	31	7.9	4.30
Rossland	49 5	117 48	3400					23.8		8	35.0	8	−6.5	31	6.2	[illegible]
Ruskin (Stave Falls)	49 16	122 23	125					40.3		3	52.0	2, 3	24.0	30	11.1	10.75
Salmon Arm	50 42	119 35	1152					26.2		10	40.0	8	−5.0	31	7.5	4.50
Salmon Arm (Ex. Farm)								25.4		1	40.0	1	0.5	31	12.3	3.85
Steveston (Garry Point)	49 21	123 17						39.8	+0.4	16	52.0	19, 23	13.0	31	8.9	5.50
Swanson Bay	50 37	126 53						36.1		4	46.0	8	16.0	30, 31	5.2	[illegible]
Salt Spring Island	48 50	123 20						39.2		3	50.0	9, 22	26.0	31	7.7	[illegible]
Summerland	49 57	119 0	1100													

Station	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm	Total obs.	Mean velocity	Highest	Direction / Date
Atlin		8	12	10	3	2	6	27	0	0	0	11	62	[illegible]	28	[illegible]
Barkerville		8	15	0	0	0	1	0	5	0	0	56	62	[illegible]	[illegible]	[illegible]
Kamloops	84	8	[illegible]	1	8	8	[illegible]	4	8	12	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]
a Nanaimo		8	13	0	0	2	23	0	2	2	12	21	62	6.2	36.0	26 SE
Prince Rupert	86	8	25	0	4	18	7	11	0	1	0	21	62	4.2	16.0	17 [illegible]

Station	Lat.	Long.	Height	Barometer				Temperature					
Sooke	48 41	123 41	25										
Stewart	56 1	130 1	215					27 4		2 38 6	12	— 4 0	30-31 5 5
Tobacco Plains (Elko)	49 1	115 5	2684					22 7	— 5 8	16 40 0	9 10	—14 8	31 7 6
Triangle Island	50 52	129 5	680	29 96	30 54	29 42	1 68	36 0		2 44 0	7	26 0	22-31 3 7
a Tranquille	50 41	120 29		28 72	29 73	28 02	1 11	27 0		4 47 0	22-23	—12 0	31 10 1
Vernon (Coldstream Ranch)	50 14	119 15	1246					23 7		16 40 0	8	— 6 0	31 10 0
Victoria	48 24	123 19	85	30 04	30 58	29 42	1 16	41 3	— 1 5	19 50 2	22	30 0	20 7 1
Vancouver	49 17	123 5	136	30 06	30 57	29 42	1 15	38 7	— 0 9	11 52 0	8	21 3	31 5 7
Winter Harbour	50 32	128 3						40 3	— 0 4	16 55 0	2	24 0	31 8 6
Wilmer	50 34	116 11						14 6		3 38 5	9	—18 0	21 6 5
Yukon—													
Carcross	60 11	134 34	2171					15 8		5 48 0	13	26 0	30 12 9
Dawson	64 4	139 20	1200										
Alberta—													
Athabasca Landing	54 43	113 17	1650					11 4		11 47 0	5	—46 0	29 20 5
Alix	52 24	113 10						20 4		7 65 0	3	—41 0	31 31 6
Banff	51 10	115 34	4542	30 10	30 49	29 30	1 19	14 5	— 5 6	17 39 7	4	—28 8	30 16 5
Blairmore	49 40	114 30	4225										
Calgary	51 2	114 2	3389	29 96	30 58	29 24	1 34	21 0	+ 0 1	27 59 0	1-22	—30 0	30 18 0
Cardston	49 12	113 18						22 1		7 51 0	1	—36 0	30 39 8
Delia	51 38	112 25						20 2		1 40 0	4	—31 6	31 16 6
Didsbury	51 40	114 8	3300					23 8		8 54 0	3 4	—40 0	30 20 9
a Dunvegan	55 56	118 35	1305										
Daysland	55 52	112 17						12 3		4 41 0	2	—35 0	31 19 4
Edmonton	53 33	113 30	2158	29 95	30 71	29 19	1 52	17 4	— 1 4	29 50 0	2	—33 0	31 19 7
Eckville	52 23	114 22											
Endiang	52 0	112 0	2795					11 2		1 39 0	4	—37 0	30 18 1
Fort Vermilion	58 27	116 3						— 1 9		7 35 5	16	—58 5	28 25 4
Gleichen	50 50	112 54	2952										
Gilt Edge	52 59	110 43											
Hillsdown	52 11	113 29	2806					17 3		8 44 0	2	—35 0	31 18 7
High River	50 35	113 53	3394					18 7		9 49 0	2 4	—31 0	31 22 6
Harmattan	51 45	114 23	3500					18 1		4 50 0	3	—38 0	30 26 1
Halkirk (Lindsay)	52 17	112 10						17 3		5 42 0	3	—28 0	31 18 0
Lethbridge	49 42	112 51	2961					25 3		10 57 6	4	—32 4	31 17 8
Lethbridge (Ex. Farm)	49 43	112 51						22 9		4 58 1	3	—24 3	26 20 4
Lacombe	52 58	113 44	2783					14 7		5 45 8	1	—37 6	31 22 0
Lawrence (Parkland)	50 16	113 26						15 5		2 49 0	5	—37 0	31 24 4
Lundford	51 33	114 19						13 1		2 56 2	2	—41 0	28 26 7
Loveland	52 30	114 59						13 8		2 38 0	3 14	—36 0	31 18 7
Medicine Hat	50 1	110 37	2161	29 97	30 58	29 13	1 45	21 1	— 0 7	26 45 0	22	—32 0	31 15 8
Macleod	49 44	113 24	3128					21 1	— 3 2	22 55 0	4 5	—35 0	28 17 1
Peace River Crossing	56 15	117 45						5 3		4 57 0	2	—58 0	29 20 9
Pembina	51 12	114 0						—		4 43 0	21	—49 0	27 —
Pakan (Victoria)	54 0	112 31						12 2		7 39 0	2	—46 0	29 24 4
Pincher Creek	49 0	114 4	3750					25 6		17 58 0	22	—32 0	29 19 0
Playle Creek (Furman)								19 4		1 50 3	5	—34 9	29 19 2
Red Deer	52 16	113 40											
Spirit River	55 40	118 47											
Sundial	50 6	112 34						20 3		4 56 0	3	—37 0	30 20 2
Threehills Creek	51 30	113 11											
Wetaskiwin	52 58	113 23	2186					16 2		9 47 0	1	—32 0	30 17 4
Waitefield	53 29	111 38	2000					11 1		7 41 8	3	—42 0	31 19 5
Saskatchewan—													
Battleford	52 41	108 20	1620	30 01	30 74	29 20	1 54	9 4	— 1 9	20 58 0	6	—38 0	31 14 2
Broadview	50 23	102 33	1960										
Brownlee	50 45	106 0											
Chaplin	50 26	106 34	2202					6 0	— 2 5	27 40 0	3	—35 0	30 21 7
Cannington Manor	49 43	102 2	2064										
Crescent Lake	50 59	102 25	1658					8 9		8 37 2	5	—37 0	30 17 4
Cumberland House	53 56	102 16						10 7		1 33 0	19	—42 0	31 10 1
Clagoness	52 32	104 13						10 1		1 35 0	6	—40 0	31 13 0
Duck Lake	52 54	106 20											
Estevan	49 12	103 4	1858					11 9		9 36 0	9	—27 0	29 13 1
Fort Qu'Appelle								10 2		1 39 8	6	—42 0	28-29 17 5

DEPARTMENT OF MARINE AND FISHERIES, CANADA: METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, DECEMBER [illegible]

(Pressure not reduced to Sea Level.)

Station	Lat. N. °	′	Long. W. °	′	Height	Pressure: Mean	Highest	Lowest	Range	Temperature: Mean	Diff. from average	Date	Highest	Date	Lowest	Date	Mean	Mean	Wind: N	NE	E	SE	S	SW	W	NW	Calm	Total	Precipitation					
SASKATCHEWAN—Continued																																	
Grenfell (Brownhall)	50	23	102	53	1957					8.8	+2.4	21	39.0	6	34.0	27	18.0		0	4	[illegible]	15	12	[illegible]	3	13	[illegible]	[illegible]	[illegible]					
Glenbryan (Larchmount)	49	54	107	27						10.4		1	39.0	23	31.4	30	18.4		1	[illegible]	6	8	6	5	16	[illegible]	0	62	[illegible]					
Humboldt	52	12	105	9						8.6		5	42.0	2	40.0	28	26.6												[illegible]					
Indian Head	50	28	103	40	1924					9.6		20	40.0	1	31.0	28, 30	16.6		6	0	3	6	12	15	5	[illegible]	18	[illegible]	[illegible]					
Imperial	51	22	105	23						10.2		1	35.0	1	37.0	31	19.0												[illegible]					
Kelvinhurst	49	21	109	29																														
Lloydminster	53	18	110	0						9.1		7	33.5	3	42.0	31	18.9																	
Luseland	52	5	109	24						8.8		1	37.0	2, 4	29.0	30	16.0												0.80		1.00			
Lost River										6.7		1	28.0	1	42.0	26	11.9																	
Moose Jaw	50	21	105	35	1759	30.06	30.81	29.16	1.65	13.7	+2.9	17	46.0	4	27.0	28, 31	16.2		12	4	8	9	4	12	13	12	27	93	0.17		[illegible]			
Moosomin	50	0	101	37	1884					8.5		10	41.0	4	33.0	29, 30	14.2		0	0	[illegible]	9	4	0	8	7	0	31						
Muenster (St. Peters Monastery)	52	0	105	0	1870					7.0		5	31.0	2	41.0	31	15.3		0	0	0	2	1	32	0	27	0	62	[illegible]		[illegible]			
Melfort	52	47	104	40						7.6		8	33.0	1, 3	39.0	28, 31	13.7												[illegible]		[illegible]			
Maple Creek (Divide)	49	55	109	28	3500					15.2		2	47.4	5	27.6	30	13.1												[illegible]		0.20	8		
Onion Lake	53	52	109	59						6.7		4	31.0	1	49.0	31	22.7		2	3	11	1	2	0	0	3	0	31						
Oliver	51	46	108	10						6.4		2	21.0	2, 3	38.0	31	20.7												0.70		0.4	[illegible]		
Pense (Gatesgarth)	50	20	105	0	1879					10.9	+1.6	24	42.0	1	32.0	28	19.0		4	0	2	8	[illegible]	3	4	7	0	31	0.80		[illegible]	[illegible]		
Prince Albert	53	10	106	0	1432	29.93	30.75	29.12	1.63	7.2	+1.7	27	35.5	3	45.0	31	13.4		6	2	2	8	5	8	1	8	22	62	1.10		[illegible]	[illegible]		
Prince (Meota)	51	0	108	20	1700					6.4		5	37.0	2	45.0	31	19.0												[illegible]		[illegible]	[illegible]		
Pilger	52	25	105	0						5.1		1	32.0	1	46.0	31	14.8												[illegible]		[illegible]	4		
Qu'Appelle	50	30	103	47	2115	29.99	30.65	29.15	1.50	11.3	+2.6	27	44.0	1	31.0	29	12.3	80	1	2	4	6	9	15	9	12	1	62	[illegible]					
Quill Lake	52	4	104	14	1600					3.7		1	30.0	2, 20	42.5	31	15.3												[illegible]					
Regina	50	27	104	37	1885					10.2	+1.3	26	40.0	1	31.0	29	16.7												[illegible]					
Rathmullen	51	20	108	57						5.3		2	35.0	23	38.5	31	20.4																	
Rosthern	52	40	106	20	1657					6.4		2	32.4	3	47.8	31	15.2												[illegible]					
Swift Current	50	20	107	45	2139	30.04	30.64	29.13	1.51	11.5	+3.5	25	42.0	4	32.0	31	13.1		7	4	[illegible]	0	18	12	4	10			0.81					
Saskatoon	52	15	106	40	1571					8.4		11	34.5	24	39.0	31	16.3												[illegible]		4	4		
Scott (Ex. Farm)										7.7		1	36.0	2	37.8	31	18.0																	
Strassburg	51	5	104	56						7.7		2	32.0	3	37.0	28	14.1																	
The Pas	53	49	101	15	860	30.09	30.93	29.32	1.61	3.5		2	35.0	3	51.0	29	14.0	89	7	2	13	2	6	2	20	2	8	62	0.70		0.36	8.25	2	0
Waseca	53	6	109	29						6.5		5	20.0	2	–32.0	28	17.4		0	4	2	8	4	4	8	5	0	31	0.45		0.25	4.27	0	0
Yorkton	51	11	102	29																														
Yarbo (Fairfield)	50	39	102	4																														
Yellow Grass	49	49	104	9						11.6		1	37.0	8, 9	27.0	29	17.3																0	0
MANITOBA—																																		
Almasippi	49	14	99	20						11.9		9	41.0	1	–32.0	29	14.0												0.35		0.16	4.27	0	0
a Aweme (St. Albans)	49	42	99	3	1180	28.74	29.33	28.04	1.29	10.6	+4.3	27	37.5	1	34.0	30	15.1												0.53	0.04	0.12	9.22	0	0
Brandon	49	51	99	57	1176					10.3	+4.9	25	36.4	8	–31.7	31	14.8																	
Berens River	52	18	97	23	710					6.1		1	30.0	9, 22	–47.5	29	17.0		12	4	22	8	4	0	6	6	0	62	2.00		1.00	4.27	0	0
Birtle	50	25	101	1	1703																													
Carberry	49	52	99	20	1258					—		7	—	—	–45.0	29-30	—												0.20		0.20	4.30	0	0
Carman	49	31	98	0	872																													

Cypress River	49	33	99	3	1232																																			
Dauphin	51	8	100	2	957					11 5		6	43 0	5	−40 0	29	13 6																0 60	—	0 50	2	29	0	0	0
Hillview	49	55	100	33	1400					8 9	+2 7	26	36 0	8	−33 0	28	13 4	6	14	5	4	12	15	6	12	5	34	0	93				0 40	−0 18	0 30	2	29	1	0	0
Minnedosa	50	15	99	50	1699	30 04	30 74	29 23	1 51	10 3	+1 2	31	35 6	5	−38 1	29	14 9	6	13	1	0	0	0	1	1	6	9	44	62				0 47	−0 15	0 34	3	28	1	0	2
Morden	49	11	98	6	978					13 5		8	42 0	10	−30 0	29	13 7			14	5	0	2	2	13	8	10	8	62				1 24	—	0 54	4	27	0	0	0
Moose Horn Bay (Aitkenville)	51	15	99	33						8 5		2	37 1	9	−39 3	29	18 9			18	3	2	3	11	3	1	5	6	52				0 88	—	0 62	9	22	2	0	0
Ninga	49	14	99	51	1649					—		1	40 6	4	−25 0	29-31	—																0 57	—	0 19	4	27	6	6	0
Ninette	49	24	99	38	1363					9 6		1	45 0	9	−39 0	30	12 2																0 18	—	0 10	3	28	0	0	0
Oak Bank	49	57	96	42	800					11 6	+5 7	16	35.5	8	−30 0	29	11 2			3	1	0	1	5	7	0	12	2	31				0 80	+0 28	0 20	5	26	0	0	0
Pipestone	49	34	100	58	1400																																			
Portage la Prairie	49	57	98	17	830					13 1	+5 9	22	38 0	8-9	−31 0	29	13 8																0 13	0 15	0 08	2	29	0	0	0
Portage la Prairie (2)	49	56	98	17																																				
Pierson	49	11	101	5	1531																																			
Stony Mountain	50	40	97	14	803					10 7	+3 5	29	38 0	10	−35 0	29	16 7			6	4	4	7	15	1	6	15	0	58				—			—	—	0	0	0
Swan River	52	6	101	15	1112					6 0		4	33 0	3 8	−50 0	27	16 4																1 20	—	1 00	2	29	0	0	0
Treherne	49	36	98	40	1212					11 7	+3 2	16	41 0	4	−32 0	29	14 1																0 47	—	0 13	11	20	0	0	0
Virden	49	51	100	55	1444																																			
Winnipeg	49	53	97	7	760	30 08	30.78	29 31	1 47	12 4	+5 6	37	38.4	8	−31.4	29	13 4	7	7	10	0	2	3	16	3	7	11	7	62				0 79	−0 13	0 12	12	19	0	0	0
Ontario—																																								
Alton	43	51	80	5	1250					26 5	+3 2	24	52 2	11	−1 4	20	14 4	7	10	2	1	17	3	22	9	37	2	0	93	n	v	27 w	2 49	+0 17	0 50	11	20	0	0	5
Aurora	43	57	79	24	886					29 0	—	4	54 0	11	2 0	4	12 8																2 64	+0 54	0 39	14	14	0	0	0
Agincourt	43	47	79	16	590					31 5	+8 2	17	54 2	10	3 0	4	10 3			3	12	12	3	0	30	11	17	5	93				2 60	+0 28	0 45	15	16	0	0	5
Barrie	44	23	79	41	839																																			
Beatrice	45	8	79	20	800					26 6	+7 5	36	51 0	11	−3.0	4	13 9	8	18	1	1	1	11	13	11	2	19	34	93				2 26	−1 95	0 70	10	21	0	0	3
Bruce Mines	46	18	83	55	595					26 2	+9 0	13	46 0	10	0 0	3	13 0																3 24	+0 67	1 31	12	19	0	0	0
Birnam	43	2	81	55	600					32 7	+5 9	28	57 1	10	11 7	4	7 5			8	3	8	6	15	8	5	8	1	62				1 86	−1 54	0 42	8	25	0	0	2
Brantford	43	10	80	21	750					32 2	+6 5	30	56 0	11	10 0	3	11 6																1 85	−0 59	1 00	3	28	0	0	3
Bloomfield	43	59	77	21	260					31 8	+5 8	12	55 0	11	5 0	4	10 4																3 01	—	0 75	8	25	0	0	0
Bancroft	45	1	77	50						25 2		22	50 0	11	−10 0	3	16 2																—	—	—		—	0	0	0
Copper Cliff	46	30	80	59						22 6		6	47 6	10	−6 0	29	12 7																2 21	—	1 18	6	25	0	0	0
Clinton	43	32	81	37						30 4		9	55 0	11	8 0	4	8 9			3	1	8	10	14	5	12	9	0	62				2 78	—	0 36	15	16	0	0	1
Coldwater	44	38	79	40	600					25 6	+4 8	24	47 0	10	−9 0	4	16.6																—	—	—		—	0	0	0
Cottam	42	7	82	45	606					32 5	+2 3	24	54 0	16	10 0	31	16 6			6	3	5	10	15	6	16	1	0	62				3 14	+0 51	0 85	8	23	0	0	0
Chatham	42	23	82	12	595					32 6	+5 2	25	55 0	10	10 0	4-29	13 0																3 68	+1 86	0 81	11	20	0	0	0
Cochrane	49	2	81	0	916	30 11	30 71	29 45	1 26	18 7		2	45 0	11	−24 5	30	11 7			9	4	8	1	15	7	14	4	0	62				1 62	—	0 62	7	23	0	0	0
Collingwood	44	31	80	2	...																																			
Elora	43	41	80	21	1274					28 8	+4 4	14	53 0	9	5 0	4	11 1																2 83	+0 08	0 46	11	20	0	0	0
Gravenhurst	41	54	79	20						26 0	+5 1	41	50 0	11	−1 0	4-30	14 1	7	11	13	2	7	20	14	3	13	6	15	93	n	v	—	1 60	2 34	0 50	9	22	0	0	1
Guelph	43	33	80	16	1050					30 9	+7 1	25	53 0	11	8 0	4	9 8																0 56	−1 78	0 15	6	25	0	0	2
Grimsby	43	13	79	36						35 0		2	61.0	11	14.0	4	11 0																2 42	—	0 49	12	19	0	0	0
Haileybury	47	29	79	39	687	30 10	30 68	29 16	1 52	22 7	+11 2	18	50 8	11	−11 7	30	10 8			6	5	2	3	8	12	7	12	7	62	n	v	—	2 73	+0 48	0 70	14	[illegible]	0	0	0
Hamilton	43	16	79	54	303					33 9	+6 7	36	58 0	11	2 0	25	9 3																—	—	—		—	0	0	0
Haliburton	45	1	78	28	1050					24 9	+6 1	24	48 0	11	−10 0	4	13 4																—	—	—		—	0	0	0
Huntsville	45	19	79	8						27 0		4	47 0	10	−4 0	3-4	10 9																—	—	—			0	0	0
Kenora	49	48	94	32	1102					11 8	+5 9	13	32 0	10	−30 0	29	10 0																1 50	+0 03	0 60	5	26	0	0	0
Kakabeka Falls	48	29	89	26	912					15 5		4	42 0	1	−27 0	29	19 1																1 32	—	0 59	9	22	0	0	1
Kingston	44	13	76	29	285	30 11	30 62	29 32	1 30	31 9	+7 7	37	53 0	10	−5 1	4	10 6			4	14	0	4	2	15	15	8	0	62				3 50	+0 66	0 50	16	14	2	0	[illegible]
Kinmount	44	45	78	38	920					24 4	+5 5	12	46 0	10	−13 0	3	13 6																1 01	—	0 40	4	25	0	0	0
Lucknow	43	56	81	30	908					29 5	+4 0	26	58 6	10	7 0	1	10 4																2 05	−2 23	0 34	15	15	[illegible]	[illegible]	[illegible]
Lake Talon	46	15	78	48						23 2		17	52 2	10	−15 0	30	13 8																0 66	−1 80	0 [illegible]	6	25	[illegible]	0	0
London	42	59	81	13	808	30 08	30 55	29 42	1 13	32 1	+5 2	27	55 5	10-11	4 0	4	11 2			0	31	9	16	0	4	19	14	0	93				3 46	−0 [illegible]5	1 00	15	16	0	[illegible]	1
Lakeside Home	43	40	79	24						34 7		5	54 0	10-11	10 0	4	11 2																—	—				0	0	0
Lorne Park	43	32	79	37						33 1		4	58 0	11	11 0	4	11 4																1 75	—	0 67	6	25	0	0	2
Lindsay	44	20	78	45	872					27 6	+6 0	32	52 1	12	−1 2	4	13 9	7	11	7	2	7	7	13	13	14	11	19	93	n	v	27 w	2 47	−2 00	0 55	13	18	0	0	2
Lakefield	44	25	78	15	850					30 6		28	54 0	11-13	4.0	4	12.3																1.87	−0.57	0 54	11	20	0	0	0
*Midland	44	44	79	53	750					—		4	—	—	—	—	—																1 30	−1 76	0 60	4	27	0	0	0
Madoc	44	30	77	29	575					28 2		8	53 0	11	0 0	4	11 0																3 09	—	0 60	12	19	0	0	0
Montague	44	56	75	57						27 7		2	55 0	11	−3 0	4	12 2																2 78	+0 93	0 50	11	20	0	0	1
Montreal River	47	8	79	29						28 3		1	56 0	13-14	−19 0	30	22 2																2 32	—	0 60	9	22	[illegible]	[illegible]	[illegible]
*North Bruce	44	23	81	25						30 8	+5 2	24	53 0	10	8 0	19	—			1	8	18	3	23	13	13	11	0	93				1 18	−2 04	0 40	8	[illegible]	0	0	[illegible]
North Gower	45	8	75	43																																				
Owen Sound	44	34	80	55	597					—		34	—	—	—	—	—			13	0	0	1	43	5	0	0	0	62				2 68	−2 02	1 80	4	27	[illegible]	[illegible]	[illegible]
Orillia	44	37	79	24	775					28 4	+5 2	19	53 0	10	1 0	4	10 7			1	2	0	2	8	8	1	9	0	31				1 91	−1.66	0 50	7	24	[illegible]	0	0
Ottawa	45	26	75	42	294	30 11	30 60	29 27	1 33	26 4	+9 5	27	52 0	11	−2 0	4	11 0			3	0	22	1	1	11	16	6	2	62				3 09	+0 58	0 57	15	16	0	0	0
Port Arthur	48	27	89	12	644	30 06	30 58	29 35	1 23	20 1	+5 7	30	39 0	5-12	−16 0	29	11 9	7	13	11	5	1	3	4	7	12	16	3	62				1 65	+0 70	0 40	8	23	[illegible]	0	0
Port Stanley	42	40	81	13	592	30 15	30 62	29 46	1 16	33 1	+4 8	37	49 2	11	7 8	4	10 2	8	20	1	7	11	10	0	8	19	3	3	62				3 78	+0 06	0 72	20	[illegible]	[illegible]	[illegible]	7
Port Dover	42	47	80	13	635					33 0	+5 1	36	53 5	10	7 1	4	10 7			1	2	3	3	2	7	7	6	0	31				3 43	+0 46	0 86	17	14	0	0	0
Port Burwell	42	39	80	55	592					33 1		8	48 0	10-11	6 0	4	7 5																2 57	—	0 45	11	20	0	0	6
Parry Sound	45	19	80	0	635	30 10	30 63	29 15	1 48	28 0	+6 7	35	50 0	10	1 0	28	11 8			5	10	3	8	6	15	1	13	1	62				3 04	−1 62	0 65	14	17	0	0	0
Point Clark	44	5	81	44	595					—		38	—	—	—	—	—			6	0	2	3	18	11	19	3	0	62				—	—		—	—	[illegible]	[illegible]	[illegible]
Pelee Island	41	50	82	35	585					31 9	+5 5	31	62.5	21	3 0	28	10.3																1 64	−0 48	1 54	4	27	0	0	0

DEPARTMENT OF MARINE AND FISHERIES, CANADA: METEOROLOGICAL SERVICE

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA [illegible] 1921

a Barometer not reduced to Sea Level. [illegible]

STATION	N. Lat.	W. Long.	Height	Pressure, Temperature, Wind, Sunshine, Precipitation
Ontario—Continued				
Paris	43 12	80 25	840	[illegible]
Peterboro	44 17	78 19	722	[illegible]
Porcupine	48 29	81 18		[illegible]
Providence Bay	45 40	82 14		[illegible]
Renfrew	45 26	76 39	446	[illegible]
St. Catharines	43 9	79 15	347	[illegible]
Stonecliffe (Rockliffe)	46 [illegible]	78 6	557	[illegible]
Southampton	44 30	81 21	656	[illegible]
*Sarnia	42 59	82 24	586	[illegible]
Stratford	43 23	81 0	1191	[illegible]
Sturgeon Creek	43 13	79 45	292	[illegible]
Schreiber	48 50	87 15		[illegible]
Shelburne	44 5	80 12		[illegible]
Scarboro Jct	43 43	79 13		[illegible]
Toronto	43 40	79 24	350	[illegible]
Uxbridge	44 5	79 8	880	[illegible]
Uplands	45 18	79 25		[illegible]
Utica	44 54	78 18		[illegible]
White River	48 35	85 16	1252	[illegible]
Woodstock	43 8	80 47	980	[illegible]
Welland	42 5	79 17	577	[illegible]
Windsor	42 20	83 4	625	[illegible]
Wallaceburg	42 35	82 24		[illegible]
Quebec				
[illegible]	48 1	[illegible]		[illegible]
*[illegible], E. Pt.	[illegible]	[illegible]		[illegible]
*[illegible], W. Pt.	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	48 [illegible]	[illegible]		[illegible]
Clarke City	50 10	66 25		[illegible]
*Cap Chatte	49 6	66 45		[illegible]
*Cape Magdalen	49 16	65 21	93	[illegible]
Chicoutimi	48 25	71 5	150	[illegible]
Chesterton 2				[illegible]
Cap Rouge	46 46	71 18		[illegible]
Dalhousie	45 55	71 21		[illegible]
Father Point	48 31	68 29	20	[illegible]
Lake Edward	47 39	72 15	1133	[illegible]
La Tuque	47 27	72 48		[illegible]
Montreal	45 30	73 35	187	[illegible]
Mansonan				[illegible]
Parkins' Mills	45 38	75 8		[illegible]
Quebec	46 48	71 13	296	[illegible]
Roberval	48 31	72 13	352	[illegible]
Ste. Anne de Bellevue	45 27	73 5		[illegible]
Shawinigan Falls	46 34	72 4		[illegible]
Sherbrooke	45 32	72 7	620	[illegible]

NEW BRUNSWICK—																																									
Chatham	47	3	65	29	21	30 01	30 54	28 98	1 56	24 8	+ 6 3	36	52 5	12	— 7 5	31	11 1		7	10	3	6	10	2	0	10	22	7	2	62				3 33	+ 0 15	1 14	12	19	0	0	0
Dalhousie	48	4	66	22	39					23 2	+ 8 6	36	47 0	12	2 0	2	11 5				0	0	4	1	0	6	17	0	3	31				2 60	— 0 15	1 20	5	26	0	0	0
Fredericton	45	57	66	36	164	30 08	30 45	29 17	1 28	21 2	+ 5 2	39	56 0	12	— 2 0	31	14 6	87	7	7	1	12	8	6	1	9	17	37	2	93	9 6	31 3	29 N W	2 03	1 48	0 70	7	24	0	0	3
Grand Manan	44	47	66	46	49	30 08	30 56	29 20	1 36	33 1	+ 3 6	27	56 0	11-12	9 0	29	12 1		6	5	6	8	7	1	1	9	3	21	3	62				2 42	— 2 07	1 75	7	21	0	0	0
Moncton	46	9	64	45	50					26 1	+ 6 5	14	56 0	11-12	0 0	30	15 7				1	2	2	7	1	0	2	16	0	31				1 80	— 0 81	1 00	5	26	0	0	1
*Point Lepreaux	45	4	66	28	30					30 9	+ 5 1	33	48 0	11-13	10 0	30	—		5	9	15	10	5	2	4	10	7	25	0	78	III	VII	15 N W	3 17	— 0 23	2 12	5	26	0	0	2
St. John	45	17	66	4	70	30 06	30 44	29 22	1 22	29 2	+ 5 0	39	52 0	11	3 0	31	11 5		6	7	9	11	3	3	6	3	3	19	5	62				2 95	1 08	1 56	10	21	0	0	3
St. Stephen	45	11	67	16	35					27 3	+ 5 9	14	59 0	12	— 1 0	21	15 2																	3 53	+ 0 14	1 93	7	24	0	0	2
Sussex	45	38	65	38	69					25 7	+ 7 8	14	55 0	12	0 0	6	14 7				0	2	0	1	0	3	2	3	19	31				2 74	1 12	1 85	4	27	0	0	0
NOVA SCOTIA—																																									
Antigonish	45	38	61	59	50							2																													
Halifax	44	39	63	36	88	30 03	30 47	29 20	1 27	31 0	+ 1 7	37	56 6	12	11 2	20	11 6				12	9	5	2	1	9	11	15	4	62				3 40	2 29	1 58	11	26	0	0	1
Port Hastings	45	39	61	22	45					28 4	+ 0 7	19	48 0	3-13	3 0	29	11 7				6	2	6	1	0	9	0	16	0	31				1 05	— 2 55	0 95	2	[illegible]	0	0	0
Parrsboro'	45	23	64	19	40					25 6	+ 0 4	15	48 0	12	7 0	30	12 8																	—	—				0	0	0
Sydney	46	10	60	10	35	29 97	30 54	28 93	1 61	31 3	+ 2 1	38	56 0	12	12 5	29	10 2		9	24	3	5	3	1	2	7	16	23	2	62				2 40	— 3 29	1 22	6	25	0	0	1
*Sable Island, E. Pt	43	58	59	46	25					37 7		27	47 0	13	22 0	29	—				2	18	0	9	0	19	0	45	0	93				4 60	—	1 10	5	26	0	0	2
Truro	45	22	63	18	77					29 0	+ 4 1	37	55 0	13	4 5	31	12 5				10	9	5	6	11	15	13	8	6	93				2 17	.	1 06	8	23	0	0	5
Windsor	44	59	64	6	90					30 7		9	61 5	14	9 0	29	11 8																	1 43	—	0 50	6	25	0	0	0
*Whitehead	45	15	61	8	20					31 5	+ 0 7	28	46 0	13	15 0	29	—				9	3	4	5	2	14	26	30	0	93				2 00	— 1 81	0 75	4	27	0	0	4
aWolfville	45	7	64	20		29 93	30 45	29 09	1 36	30 5	+ 5 2	11	62 5	12	9 5	29	12 9				4	5	4	3	4	10	12	15	5	62				1 10	— 2 87	1 04	6	25	1	0	0
Yarmouth	43	50	66	2	65	30 08	30 46	29 25	1 21	33 8	+ 2 6	31	53 2	12	16 3	20	10 0				10	4	19	3	2	5	3	9	1	62				2 18	— 2 57	1 31	9	22	0	0	5
P. E. ISLAND—																																									
Charlottetown	46	14	63	10	38	30 01	30 48	29 01	1 47	28 9	+ 3 8	36	51 0	12	7 5	29	9 6				2	9	0	3	5	8	7	23	7	62				1 75	— 2 08	0 85	6	25	0	0	0
Charlottetown (2)	46	14	63	7	75					28 7		2	53 0	12	7 0	29	19 6																	1 84	—	0 33	13	18	0	0	0
Hamilton	46	25	63	48																																					
NEWFOUNDLAND—																																									
*Amour Point	51	28	56	51																																					
Burin	47	0	55	10	27	29 88	30 58	28 93	1 65	26 6		3	46 0	12 13	5 0	6	19 3				7	4	0	4	2	8	10	25	2	62				3 01	—	0 70	15	16	0	0	0
*Cape Norman	51	38	55	52						15 7		27	33 0	12-27	— 2 0	31	—				49	10	3	1	1	3	10	16	0	93				1 98	—	0 50	8	23	0	0	0
Fogo	49	43	54	17	30	29 82	30 46	28 77	1 69	23 0		2	40 0	12	8 0	22-23	8 2				17	7	0	1	3	2	12	16	0	58				5 06	—	0 80	18	13	0	0	1
*Point Rich	50	42	57	25	35					39 1		27	36 0	12-26	— 7 0	31	—				33	14	0	5	7	7	11	16	0	93				2 65	0 51	1 20	5	[illegible]	0	0	0
Port aux Basques	47	35	59	10	27	29 89	30 53	28 92	1 61	26 2		3	43 5	12	10 5	6	10 0				9	8	5	1	0	5	9	25	0	62				3 37	—	0 50	18	13	0	0	0
St. John's	47	34	52	42	125	29 76	30 58	28 79	1 79	25 7	— 3 2	38	45 0	12	7 0	23	12 2		7	6	4	6	0	2	1	13	8	28	0	62				4 61	— 0 85	1 20	14	17	0	0	1
BERMUDA—																																									
Prospect	32	17	64	46	151	30 19	30 37	29 92	0 45	65 6	+ 0 8	20	73 6	28	55 0	21	8 2				5	18	2	7	2	14	2	9	3	62				3 28	1 70	1 24	17	14	0	0	1

[illegible] STATIONS RECORDING RAIN, SNOW, WEATHER [illegible] DURING DECEMBER, 1911

STATIONS	RAINFALL: Total [illegible]	RAINFALL: No. of Days [illegible]	RAINFALL: No. of Fair Days	RAINFALL: Heaviest Fall in Month	RAINFALL: Date	SNOW: Amount in Inches	SNOW: No. of Days	SNOW: Heaviest Fall	SNOW: Date	REMARKS
[illegible]										
[illegible]	[illegible]		25	0.24	8	3.8	5		26	
[illegible]	[illegible]	[illegible]	11	0.40	7	21.1	11	3	15	
[illegible]	[illegible]	[illegible]	14	0.65	22					
[illegible]	[illegible]	15	15	2.15	21	11.5	3	[illegible]	28	
[illegible]	[illegible]	14	15	0.72	28	2.0	2	[illegible]	29	
[illegible]						15.5	11	1	7	
G[illegible]	[illegible]	[illegible]	5	1.86	22	3.8	3	2.5	29	
H[illegible]										
H[illegible]	[illegible]	8	23	1.15	18					
[illegible] River	[illegible]	22	9	[illegible]	22					
[illegible]	[illegible]	25	4	1.12	22	18.1	11	[illegible]	29	
[illegible] Creek, V.I.	[illegible]	8	23	0.50	7					
M[illegible] Creek	[illegible]	1	21	[illegible]	8	17.5	6	[illegible]	15 20	
N[illegible] Harbour	[illegible]	13	16	1.08	22	6.0	2	[illegible]	24	
S[illegible]										
S[illegible]	[illegible]	22	6	0.95	23	7.0	3	[illegible]	[illegible] 31	
Alberta —										
B[illegible]						1.5	1	1.5	9	
B[illegible]							1	*	24	
B[illegible]										
B[illegible] Lake						2.3	4	[illegible]	9	
Brooks	[illegible]	1	20	0.08	9	1.8	1	[illegible]	23	
C[illegible] Creek										
C[illegible]										
Camrose						1.8	4	[illegible]	20	
C[illegible]						8.8	5	[illegible]	23	
D[illegible]	[illegible]	4	27	0.02	2	3.5	3	2.0	31	
D[illegible]						2.0	7	[illegible]	20	
[illegible] Lake						5.0	2	[illegible]	28	
[illegible]										
[illegible]										
L[illegible]						5.0	4	2.5	24	
[illegible]						5.6	2	4.1	23	
[illegible]						6.5	1	0.5	25	
Ma[illegible]						10.5	5	[illegible]	23	
[illegible]										
M[illegible]						7.2	2	[illegible]	24	
N[illegible]										
Okotoks						2.5	1	2.5	24	
[illegible]						5.5	3	[illegible]	23	
[illegible]						5.5	4	2.5	26	
[illegible]										
S[illegible]						3.8	1	1.0	25	
S[illegible]						1.5	1	1.5	23	
[illegible]										
Saskatchewan —										
[illegible]										
[illegible]										
[illegible] How										
[illegible] Lake										
Gull Lake						27.0	4	9.5	16	
[illegible]										
H[illegible]										
K[illegible]										
Last Mountain						3.6	7	2.0	9	
Maple Creek						4.8	8	1.0	17 24 25	
Meadow Lake										
Willow Creek						2.0	1	2.0	29	
Manitoba —										
Cartwright						2.3	4	1.0	13 24	
D[illegible]										
Gretna										
N[illegible], Swan Lake						3.5	8	1.6	14 22	
Rapid City						2.6	1	1.6	24	
Rose Bank										
Ontario —										
Deer Park	[illegible]	10	18	0.44	12	6.0	3	4.1	30	
D[illegible]	[illegible]	2	28	0.50	27	1.0	1	1.0	20	
[illegible]dale	[illegible]	5	20	0.28	27	8.5	6	2.5	17	
Georgetown	1.30	11	12	0.38	11	10.4	8	4.0	27	
Grantham	1.82	9	19	0.55	13	2.8	3	2.0	31	
Grand Valley	1.04	5	20	0.41	12	12.5	6	[illegible]	29	
MacC[illegible]	1.23	5	24	0.30	15	4.0	2	[illegible]	16	
Orangeville	1.00	3	17	0.75	12	15.6	11	4.2	28	
Princeton										
Sydenham	2.75	4	25	1.00	11	3.0	2	2.0	17	
Strathroy	1.12	5	21	0.65	11	10.5	5	6.0	30	
Watford	2.18	4	27	0.78	26					
Westport	[illegible]	4	22	0.58	16	5.3	5	[illegible]	13	
Westminster	[illegible]	5	24	2.06	12	5.0	2	3.0	30	
Wooler	.56	7	21	0.84	11	*	3	*	[illegible] 14 28	
W[illegible]	[illegible]	7	17	0.38	9	23.0	7	10.0	28	
Quebec —										
Kepawa										
Lucerne	0.16	2	26	0.13	10	9.5	3	5.0	14	
Perkins Mills	1.71	4	21	0.66	12	15.5	6	6.0	15	
Quinze Dam	[illegible]	1	25	1.00	10	21.5	5	8.5	27	
Timiskaming	[illegible]	1	24	0.21	10	21.0	6	5.3	31	
New Brunswick —										
Point Escuminac	0.77	3	24	0.42	23	7.0	4	4.2	23	
Nova Scotia —										
Big Mushamush Lake, Mahone										
Kentville	1.15	2	25	1.08	23	9.0	4	5.5	3	
Kedgemakooge Lake, New Grafton										
Liverpool, Indian Gardens										
Milton										
Mushamush River, Mahone										
South Alton	2.25	2	25	1.75	23	13.0	4	5.0	2	
White Rock	[illegible]	4	27	1.12	23					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF DECEMBER, 1911

STATION.	Hours Ending												
	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.
Salmon Arm				08	19	23	22	14	09	02				
Victoria			02	14	17	19	28	31	25	09				
Nanaimo				01	14	16	12	02	03	01				
Vancouver			05	15	23	26	28	27	24	07				
Agassiz				14	35	28	24	18	16	03				
Tranquille		03	14	17	27	34	31	22	03					
Summerland			07	20	23	32	27	29	10					
Kamloops			06	23	32	32	33	34	13					
Edmonton			07	37	32	47	46	46	50	13				
Lethbridge		T	20	28	35	39	35	39	34	26				
Lacombe			08	29	33	42	48	48	42	26	01			
Medicine Hat			07	26	34	39	38	30	22	05				
Fort Dunvegan						12	30	34	14					
Fort Vermilion			01	04	31	41	43	36	13					
Battleford			12	40	54	52	45	32	16					
Indian Head				11	21	40	44	40	16					
Moosejaw			19	40	70	49	39	36	26	08				
Scott			12	19	25	24	26	32	31	14				
Rosthern		T	14	23	27	35	32	31	28	05				
Brandon		01	18	22	25	27	34	33	11					
Winnipeg			02	09	21	33	40	33	27	14				
Haileybury		T	12	20	23	25	26	22	22	14	T			
Woodstock			09	21	19	23	22	22	22	17	01			
Lindsay			03	19	31	25	26	27	28	18	03			
Barrie														
Toronto			10	22	22	27	30	33	21	12	01			
Kingston		01	22	38	38	38	45	48	44	28	06			
Ottawa			12	27	32	38	43	39	30	13				
Montreal			10	28	31	35	34	32	30	16				
Cap Rouge			08	19	17	20	22	21	21	13	01			
Quebec			10	18	23	24	27	26	23	17	01			
Sherbrooke		T	07	13	20	18	19	18	13	06				
Fredericton		01	23	31	38	42	43	40	43	35	01			
Charlottetown			25	24	19	21	26	32	30	17	01			

	Salmon Arm.	Victoria.	Nanaimo	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Fort Dunvegan	Fort Vermilion	Battleford.	Indian Head.	Moose Jaw.	Scott.	Rosthern.	Brandon	Winnipeg.	Haileybury	Woodstock.	Lindsay	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Cap Rouge.	Quebec	Sherbrooke.
Registered duration in hours	30	45	15	48	43	47	46	53	85	80	85	62	28	53	78	53	82	56	60	50	55	50	48	55	35	55	95	72	66	44	53	35
Percentage of possible duration	12	17	5	19	17	19	18	21	37	32	36	25	11	20	33	21	33	23	26	20	22	19	17	20	13	20	34	27	26	17	20	13
Difference from average	—	+2	....		+2	—	—	—	....	..	..		.	....	+2	−2	..			−14	−13	—	−3	0	−3	−4	+9	+8	0		−7	...
Maximum percentage in one day	78	74	58	83	68	75	74	64	92	95	95	81	45	73	69	66	91	95	96	83	72	93	91	81	80	80	93	87	94	89	92	78
Date of maximum	31	24	8	31	28	31	24	10	2	2	1	2	30	30	26	6	3	11	26	6	31	29	7	7	6	29	19	4	19	4	4	14
Number of days completely clouded	21	12	26	16	15	14	15	10	7	7	7	6	14	15	4	11	12	14	14	15	18	13	17	14	15	12	8	14	15	19	18	23

[illegible]

[illegible] observer, is given, I being the highest, IV the fee- [illegible]

1. Sion.

2. Sion.

3. Sion.

4. Sion.

5. Sion.

6. Sion.

7.

8.

9. Sion.

10. [illegible] II, [illegible] I, Sion IV, Waitefield II, Hillsdown III, Campsie III, Prince I, Peace River Crossing III, Fort Vermilion I.

11. Waitefield I, Minnedosa I, Campsie IV, Muenster IV, Glenbryan II, Divide IV, Crescent Lake III.

12. Sion IV, Waitefield IV, Campsie II, Divide IV, Grenfell, Fort Vermilion I.

13. Sion III, Fort Vermilion III.

14.

15.

16. Sion.

17. Sion IV.

18. Sion.

19. Kingston I.

20. Sion.

21.

22. Sion.

23.

24. Sion.

25. Halkirk, Aitkensville IV, Sion, Prince II, Muenster II, Crescent Lake III, Fort Vermilion I, Fort Qu'Appelle II.

26. Chagoness III, Fort Vermilion II, Fairview, Fort Qu'Appelle IV.

27. Chagoness IV, Aitkensville IV, Fort Vermilion II, Fort Qu'Appelle IV.

28. Sion.

29. Sion.

30. Chagoness IV, Sion.

31.

A thunder storm recorded at Southampton on 27th.

FORECASTS FOR DECEMBER, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1222. These were divided as follows:—

District	No. Issued	Verified			
		No. Fully	No. Partly	No. Not	Per centage
Alberta	74	67	30	2	91.1
Saskatchewan	78	57	17	4	84.0
Manitoba	79	54	19	6	80.4
Lake Superior	102	66	27	12	75.0
Lower Lake Region	111	79	24	8	82.0
Georgian Bay	111	84	21	7	84.2
Ottawa Valley	100	76	12	12	82.0
Upper St. Lawrence	101	77	14	10	83.2
Lower St. Lawrence	111	82	21	8	83.3
Gulf	112	76	27	9	79.9
Maritime Provinces West	119	93	22	4	87.4
Maritime Provinces East	119	80	31	8	80.2
Total	1222	887	245	90	82.6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
January 24, 1912.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

SUPPLEMENT TO THE

Monthly Weather Review

FOR 1911

FREE AIR CONDITIONS.

The investigation of the free air conditions over Ontario by means of balloons and kites was commenced during the year. In placing the results obtained at the disposal of meteorologists it will suffice for the present to give a brief account of the apparatus and methods employed, reserving the full description and discussion until fairly complete series of observations have been obtained.

BALLOON EQUIPMENT.

Dines' meteorographs were used on all occasions, and all instruments returned have given good results. The greatest difficulty experienced was in producing hydrogen gas in sufficient quantities to fill the balloons. At first the gas was generated from aluminum and caustic soda, but this method required a very great expenditure of time to obtain even sufficient gas for one balloon. This difficulty was finally solved by using calcium hydride and water. The hydride is similar to the carbide, and with a small portable generator it is now a simple matter to fill a balloon in about five minutes, or taking the time of getting the generator, etc., ready for action twenty minutes at the most. The balloons are made of rubber bursting at about 1.75 or 2 metres diameter.

The ascents were made at first from Toronto, but as only four balloons were returned out of ten despatched, it was deemed advisable to try another locality where the chances of finding them would be better. All the balloons have travelled easterly, and the lake on which Toronto is situated, and the unsettled parts of the country at some distance to the northeast render it extremely probable that the missing balloons fell in the lake or the forest. Woodstock, which is about 80 miles west of Toronto, was next tried; it is much farther from the lake, and within a radius of over 100 miles the country is cultivated. The results from Woodstock have been very satisfactory, and out of twelve ascents, eight balloons have been recovered.

Balloons were sent up on the evening preceding the international days throughout the year at about midnight G.M.T. Generally the ascending and descending temperature pressure curves are different, but of course it is impossible to tell which is ascending and which descending, except that as there is a certain amount of lag, it is most probable that the curve giving the lowest temperature is the descending one. The results are given for each 0.5 km. of height, with intermediate points if there are any inversions or noteworthy features, and the temperatures for the ascent and the descent at each height are given if they are different; if not distinguishable, then only one temperature is given for the height.

KITE EQUIPMENT.

A kite station has been equipped at Agincourt—latitude 43° 47′ N., longitude 79° 16′ W., about 14 miles from Toronto. The equipment is similar to that employed by Dines at Pyrton Hill, and the Dines' kites and meteorographs were used during the year. These kites are very easily constructed and the meteorographs are not expensive; for these reasons it was considered advisable to use them at first until the station was in good working order, after which other kinds and types will be tried. Records of pressure, temperature, humidity and wind direction have been obtained. Ascents began on the 28th February, and the highest flight was 7,900 feet above sea-level, obtained on the 28th June.

Toronto—Lat. 43° 40', Long. 79° 24'.

REGISTERING BALLOON—ASCENT AT TORONTO ON 3rd FEB., 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—9.40 p.m., G.M.T.
Barometer—750mm.
Temperature = —4.2°C.
Direction of Flight at Beginning—W., then N., then N.E. at height of 1.1km.

Fell 135km. distant, 25° N. of E.
Maximum Height—11.2km.
Minimum Temperature —68.0°C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	750	—4.2	
.5	716	—6.0	
.8	688	—8.0	
1.0	670	—7.0	—4.0
1.5	629	—5.0	—3.0
2.0	588	—5.0	—4.0
2.5	552	—10.0	—8.0
3.0	518	—13.5	—10.5
3.5	482	—17.0	—15.0
4.0	450	—19.5	—17.5
4.5	421	—23.0	—21.5
5.0	392	—27.5	—25.5
5.5	367	—30.5	—29.0
6.0	341	—35.0	—32.0
6.5	317	—39.0	—36.0
7.0	294	—42.0	—41.0
7.5	273	—47.5	—45.0
8.0	253	—53.0	—51.5
8.5	234	—57.0	—55.0
9.0	216	—61.0	—59.5
9.5	198	—66.0	—64.5
10.0	183	—68.0	—67.0
10.3	174	—68.0	
11.0	156	—64.5	
11.2	152	—63.5	

Feb. 3rd. 1911.

At the time the balloon was let go winds were fresh E. and S.E. all over the Province of Ontario, and continued so for fully 12 hours in advance of a developing trough of low pressure, with two foci, one of which at 8 p.m. was N. of Lake Superior and the other in the Ohio Valley. It is perhaps a remarkable fact that the easterly upper current should have been found at such a low altitude.

REGISTERING BALLOON ASCENT AT TORONTO ON 7th JUNE, 1911.

Fell 88.5 km distant S. 59° E.
Maximum Height [illegible]m.
Minimum Temperature [illegible] —63.0 C

Height in km.	Pressure in mm.	Temperature in centigrade degrees	
G.L.	733	12.9	
.5	720	12.0	
1.0	679	11.5	
1.5	640	8.0	
2.0	600	5.0	
2.5	563	1.0	
3.0	529	—1.5	
3.5	498	—3.0	
4.0	467	—5.5	
4.5	438	—7.5	—8.5
5.0	410.5	—9.5	—11.5
5.5	384	—11.0	—14.5
6.0	360	—11.5	—19.5
6.1	354	—11.5	—20.5
6.5	337	—21.5	—23.5
6.7	328	—26.0	—28.0
7.0	314	—27.0	—29.0
7.5	293	—29.5	—31.0
8.0	273	—32.5	—33.5
8.5	254	—35.5	—37.0
9.0	237	—40.0	—41.5
9.5	220	—43.5	—45.5
10.0	203	—47.5	—49.5
11.0	174.5	—54.0	—57.5
12.0	148.5	—59.5	—62.0
13.0	126.0	—62.5	—63.0
13.3	121.0	—63.0	
13.9	109.5	—63.0	

June 6th, 1911.

Gradient for easterly winds—28 miles per hour at 8 p.m. Shallow depression south of the Lakes. During next 12 to 20 hours gradient still easterly, but diminishing.

Toronto—Lat. 43° 40', Long. 79° 24'

REGISTERING BALLOON—ASCENT AT TORONTO ON 8th JUNE, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—1.25 a.m. G.M.T.
Barometer—753mm
Temperature—12.8° C.
Direction of Flight at Beginning—Travelled slowly westward.

Fell 66km distant S. 17° E.
Maximum Height—13.7km.
Minimum Temperature—58.0° C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees	
G.L.	753	12.8	
.26	742	13.0	13.0
.5	721	11.5	12.0
1.0	681	11.8	9.0
1.1	675	10.0	9.0
1.5	643	9.5	7.5
2.0	607	7.0	4.5
2.5	571	5.0	2.5
3.0	537	2.0	1.0
3.5	503	−1.0	−3.0
4.0	472	−2.5	4.0
4.5	443	−4.5	7.0
5.0	415	8.0	−9.5
5.5	388	−11.0	13.0
6.0	364	14.0	−16.5
6.5	340	−17.5	−20.5
7.0	317	−21.0	−24.0
7.5	297	25.5	28.0
8.0	277	−30.0	32.0
8.5	258	−33.0	−36.0
9.0	240	−36.5	40.0
9.5	223	−40.0	44.5
10.0	208	45.5	−48.0
11.0	179	53.5	53.5
12.0	154	56.5	59.0
13.0	132	−58.0	
13.7	118	58.0	

June 7th, 1911.

High barometer over Great Lakes and Low over Southern States, with gradient for N.E. winds. Weather mostly cloudy and temperature about normal.

Toronto Lat [illegible] Long 79° 24'

REGISTERING BALLOON—ASCENT AT TORONTO ON 8th JUNE, 1911.

Instrument Dines Meteorograph.
Beginning of Ascent 11.40 p.m. G.M.T.
Barometer= 756.2 mm.
Temperature 20.0 C
Direction of Flight at Beginning N.W., then E.S.E.

Fell 89.5km distant, S. 24° E.
Maximum Height 13.7km.
Minimum Temperature = 67.0 C

Height in km	Pressure in mm	Temperature in centigrade degrees.	
G.L.	756.2	20.0	
5	720.0	20.0	
.6	712.0	20.0	
1.0	679.5	15.0	
1.5	639.0	11.0	
2.0	601.0	8.5	7.5
2.5	566.0	8.0	4.5
3.0	532	7.0	4.5
3.1	523	7.0	4.5
3.5	500	5.0	3.0
4.0	468	0.0	—1.0
4.5	438	—5.0	—5.5
5.0	410	—8.5	—10.0
5.5	384	—12.5	—15.0
6.0	359	—16.5	—19.0
6.5	340	—19.0	—22.0
7.0	313	—23.5	—27.0
7.5	293	—28.0	—32.0
8.0	272	—32.0	—37.0
8.5	253	—35.5	—41.5
9.0	236	—39.0	—45.5
9.5	219	—43.5	—49.0
10.0	204	—48.5	—53.0
10.5	190.5	—53.0	—57.0
11.0	177	—56.0	—61.0
12.0	151	—62.0	—66.0
13.0	128	—66.5	
13.5	117	—67.0	
13.7	113	—67.0	

June 8th, 1911.

In centre of a high area, with fine, warm weather. On the following day winds were east and southeast in advance of a shallow depression from the westward.

Woodstock—Lat. 43° 8', Long. 80° 47'.

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 5th JULY, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—11 p.m. G.M.T.
Barometer—739mm.
Temperature = 27.0°C.
Direction of Flight at Beginning—S.E., with thunderstorm approaching from N.W.

Fell—70.8km. distant, N.E.
Maximum Height—17.0km.
Minimum Temperature = —70 C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	739	27.0	
.5	722	27.5	
1.0	681	26.5	24.0
1.5	641.5	22.0	20.0
2.0	605	17.0	
2.5	570	12.5	
3.0	537.5	8.5	
3.5	503	4.5	
4.0	473	1.5	0.0
4.5	444	—1.5	—3.5
5.0	417	—5.0	—7.0
5.5	390	—8.0	—10.0
6.0	364.5	—12.0	—14.0
6.5	341	—16.0	—17.0
7.0	318.5	—20.0	
7.5	298.0	—22.0	—23.0
8.0	278.5	—24.0	—25.5
8.5	260.0	—27.5	—29.0
9.0	242.0	—31.0	—33.0
9.5	225.5	—35.0	—36.0
10.0	209.5	—38.0	—40.0
11.0	180.5	—45.5	—47.5
11.5	167.5	—49.0	—51.0
12.0	155.0	—53.0	—55.0
13.0	133.0	—60.5	—62.0
14.0	112.0	—66.5	—68.0
15.0	94.9	—69.0	—70.0
15.2	91.8	—69.5	—70.0
16.0	80.1	—67.5	
17.0	68.0	—62.5	

July 5th, 1911.

Shallow depression passing north of Great Lakes. Moderate westerly gradient with intense heat for some hours, but next morning gradient for N.W. and N. winds, with approaching high area and change to cooler weather.

Large No. 47

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 2nd AUG., 1911.

[illegible] graph
[illegible] G.M.T.
[illegible]
[illegible] Slowly eastward

Fell 93.3km. distant N.E.
Maximum Height [illegible] km.
Minimum Temperature [illegible] 66.0

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	755	24.0	
.5	718	20.5	21.5
1.0	676	16.5	18.0
1.5	637	14.5	15.5
2.0	600	10.[illegible]	12.5
2.5	564	7.0	9.5
3.0	529	4.5	6.5
3.5	498	1.5	3.5
4.0	467	—0.5	1.0
4.5	438	—3.0	—2.0
5.0	411	—6.0	—4.5
5.5	384	—9.0	—7.0
6.0	361	—11.0	—9.5
6.5	338	—13.5	—12.0
7.0	317	—16.5	—14.5
7.5	297	—20.0	—17.5
8.0	277	—23.5	—21.0
8.5	258	—27.0	—25.0
9.0	241	—31.0	—29.0
9.5	227	—35.0	—33.5
10.0	208	—38.5	—37.0
11.0	180	—47.5	—45.0
12.0	156.5	—58.5	—56.5
13.0	132.0	—65.5	—64.5
13.4	119.3	—66.0	
14.0	112.0	—66.0	
14.65	100.0	—66.0	
15.0	94.2	—64.0	
16.0	80.0	—62.0	
17.0	67.8	—62.6	
17.18	66.0	—62.0	

Evening of 2nd August.

Winds were light and variable, but before morning the gradient, although quite slight, was distinctly easterly; temperature a little higher than normal and weather thundery.

Woodstock Lat. 43 Long. 80 47

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 7th SEPT., 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—9.30 a.m. G.M.T.
Barometer—735mm.
Temperature—15° C.
Direction of Flight at Beginning—Slowly westward.

Fell—146km. distant S. 80 E.
Maximum Height—10.2km.
Minimum Temperature—39.0 C

Height in km.	Pressure in mm.	Temperature in centigrade degree
G.L.	735	15.0
.5	718	13.0
1.0	671	11.0
1.5	635	11.0 12.0
2.0	599	11.0
2.5	563	10.0
2.7	551	10.0
3.0	530	8.0
3.5	498	1.0 6.0
4.0	468	2.0 4.0
4.5	439	1.0
5.0	411	2.0
5.5	387	5.0
6.0	361	8.0
6.5	338	12.0
7.0	317	17.0
7.5	296	24.0
8.0	276	30.0
8.5	257	36.0
8.8	248	—39.0
9.0	238	—39.0
9.5	221	—39.0
10.2	200	

Sept. 6th—Evening.

At the time the balloon was let go there was a high pressure area north of Manitoba and the Great Lakes and a shallow depression advancing eastward across the State of Iowa. During the evening and early night, the winds in Southern Ontario were moderate, northeast and east, increasing to fresh in the early morning. The balloon fell 146 km. distant, almost directly opposite to the direction which the surface wind would have carried it.

W[illegible] Long. 80 47

REGISTERING BALLOON ASCENT AT WOODSTOCK ON SEPT 9th, 1911.

[illegible] Meteorograph
Beginning of Ascent [illegible] p.m. [illegible]
Barometer 741mm.
Temperature 19.4
Direction of Flight at Beginning Straight up and then [illegible]

Fell—185km distant S. S. E.
Maximum Height 20.2km.
Minimum Temperature = −62° C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	741	19.4	
.5	723	17.5	
1.0	681	14.0	
1.2	663	13.5	
1.5	640	13.0	10.5
2.0	602	10.5	7.5
2.5	566	9.0	6.0
3.0	532	7.0	1.5
3.5	503	1.5	1.5
4.0	474	1.0	−1.5
4.5	449	−1.5	−4.0
5.0	423	−3.0	−5.5
5.5	400	−5.0	−7.5
6.0	375	−7.0	−10.0
6.5	352	−9.0	−13.0
7.0	329	−12.0	−16.0
7.5	308	−15.0	−19.0
8.0	287	−19.0	−22.5
8.5	268	−23.0	−27.0
9.0	251	−26.0	−30.0
9.5	233	−29.5	−34.5
10.0	217	−31.5	−39.0
11.0	188	−42.5	−48.0
12.0	163	−51.0	−55.5
13.0	138	−54.0	−59.0
14.1	117	−57.5	−62.0
15.0	101	−60.0	
16.0	85.6	−58.5	
17.0	72.8	−58.0	
18.0	62.0	−58.0	
19.0	52.8	−58.5	
20.2	43.0	−59.0	

An area of high pressure over the Great Lakes. Winds light and variable. Weather fine. Very feeble depression passed to the northward on the following day.

Woodstock—Lat. 43° 8', Long. 80° 47'.

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON NOV. 8th, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—11 p.m. G.M.T.
Barometer—736mm.
Temperature = 4.6°C.
Direction of Flight at Beginning—Slow drift to S.S.W.

Fell 204km. distant, E.
Maximum Height 18.5km.
Minimum Temperature = —62° C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	736	4.0	
.5	713	2.0	
1.0	670	—2.5	
1.48	632	—5.0	
1.51	629	—2.0	—5.0
1.60	621	—2.0	—6.5
1.7	614	—2.0	
2.0	591	—2.5	
2.35	565	—3.0	
2.50	555	—4.5	
3.0	520	—5.5	
3.5	486	—8.5	
4.0	456	—11.5	
4.5	427	—14.0	
5.0	400	—16.5	
5.5	373	—20.5	
6.0	348	—23.5	
6.5	326	—27.5	
7.0	303	—31.0	
7.5	283	—35.0	
8.0	262	—38.0	
8.5	244	—41.0	
9.0	227	—43.5	
9.5	210	—45.5	
10.0	196	—47.5	
11.0	168	—50.5	
12.0	143	—53.0	
13.0	122	—55.0	
14.0	104	—57.0	
15.0	89	—59.0	
16.0	75.7	—61.0	
17.0	64.2	—61.0	
18.0	54.6	—61.5	
18.5	50.0	—62.0	

A ridge of high pressure extended over the whole of Ontario and the Middle Atlantic States, with two foci, one to the north of Lake Huron and the other off the Middle Atlantic Coast; the pressure conditions did not change appreciably during the night.

PEGASTEDING BALLOON ASCENT AT WOODSTOCK ON DEC 5th, 1911

		0.0	
	710		
	718	0.0	1.0
	700	2.5	1.5
	670	1.5	2.5
	660	5.0	3.0
	652	3.5	1.0
	643		1.0
	632		1.0
	612	1.0	2.0
	598	0.5	1.5
	560	1.5	0.0
	525	0.5	3.0
	492	1.0	3.5
	461	3.5	6.0
	442	7.5	10.5
	404	12.0	15.5
	378	18.0	20.0
	352	22.5	25.5
	328	27.5	30.5
	304	33.5	36.0
	284	39.5	41.0
	266	42.5	44.0
	247	45.0	46.5
	227	47.5	50.0
	209	51.0	53.5
	192	54.5	57.0
	177	58.0	60.0
	167	61.0	62.0
	150		64.0
	143		64.5
	138		64.0
	129		62.0

fresh to strong W.S.W. winds which continued almost unchanged through night.

Woodstock. Lat. [illegible] N. Long. 80° 47′

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 6th DEC., 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—11.0 p.m. G.M.T.
Barometer—746mm.
Temperature—2.0 C.
Direction of Flight at Beginning—E.N.E. in light wind.

Fell—Place [illegible] 70 [illegible]
Maximum Height—10.25km.
Minimum Temperature— —57.0 C.

Height in km.	Pressure in mm.	Temperature in Centigrade degrees	
G.L.	746	2.0	
.5	721	3.5	
.9	687	6.5	
1.0	678	6.5	
1.1	669	6.5	
1.5	635	4.0	
2.0	597	3.0	1.5
2.1	590	3.0	1.0
2.5	560	—1.0	—2.0
3.0	525	—3.0	—4.5
3.5	491	5.5	—7.5
4.0	460	—8.0	—10.0
4.5	431	—11.0	—12.5
5.0	403	—14.5	—16.0
5.5	378	—19.5	—20.5
6.0	352	—22.5	—24.5
6.5	328	—24.0	—26.5
7.0	307	—26.5	—27.5
7.5	285	—33.5	—34.0
8.0	265	—38.5	—39.5
8.5	246	—42.0	—43.5
9.0	227	—46.5	—48.0
9.5	211	—50.5	—52.0
10.0	195	—55.0	—55.5
10.25	186	—57.0	

Shallow low over Lake Superior—southwesterly gradient. General direction of flight not over 30° to right of surface current.

W [illegible] Lat. [illegible] Long. 80° 47'

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 7th DEC., 1911.

[illegible] Dines Meteorograph.
[illegible] of Ascent 3.00 p.m. G.M.T.
Barometer 74.0cm.
Temperature 44° F.
[illegible] of Flight at Beginning Straight up and [illegible]

Fell 407km. distant N. 70° E.
Maximum Height [illegible] kms.
Minimum Temperature —57.0 c.

Height in km.	Pressure in mm.	Temperature in centigrade degrees	
G.L.	747	4.0	
.5	723	4.0	
.7	707	4.0	
.9	688	6.5	4.0
1.0	679	6.0	4.0
1.5	636	2.0	
2.0	597	0.0	—2.5
2.5	561	—3.0	
2.7	548	—4.0	
2.9	532	—3.5	—5.5
3.0	525	—4.0	—6.5
3.5	492	—9.0	—10.0
3.6	486	—11.0	
3.7	479	—12.0	
4.0	461	—12.0	—14.0
4.5	430	—16.0	—17.5
5.0	401	—19.0	—21.0
5.5	374	—21.0	—24.5
6.0	350	—23.5	—27.0
6.2	340	—25.0	—27.5
6.5	326	—28.5	—30.0
7.0	303	—33.0	—34.5
7.5	282	—37.5	—39.5
8.0	262	—42.5	—44.0
8.5	243	—48.0	—49.5
9.0	224	—52.0	—54.5
9.4	212	—55.0	—57.0
9.5	208	—57.0	
10.0	192	—56.5	
10.5	177	—55.0	
11.0	163	—56.0	
12.0	140	—56.5	
12.1	137	—56.5	

Pressure highest over Middle Atlantic States, diminishing over Upper Lakes; gradient for light but increasing S.W. winds. Direction of flight somewhat, but not greatly, to right of the surface wind direction.

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind Direction	Wind Velocity m.p.s	Remarks
1911	h. m.							
February 28th....	1.30	171	754	— 4.4				
	1.50	490	723	—13.3				
	2.10	500	722	—14.4				
March 6th.....	12.15	171	758	— 5.6		N.E.	4.5	
	2.00	350	738	—10.0				
	2.45	300	742	—11.7				
	3.15	320	740	—12.8				
March 19th.....	12.45	171	741	2.2	90	E.	4.0	
	1.15	610	710	— 2.8	91			
	1.45	610	710	— 4.4	94			
	2.05	700	702	— 6.1	100			E. to E. S. E.
	2.30	650	725	— 3.3	100			throughout.
	2.40	610	710	— 4.4	100			
	3.00	680	722	— 1.7	100			
	3.15	610	710	— 5.0	100			
March 28th.....	11.45	171	739	— 3.3	75		10.7	
	12.05	430	714	— 8.3	95			N. W.
	12.15	680	691	— 8.9	100			throughout
	12.25	650	695	— 8.9	100			
	12.55	430	714	— 7.2	100			
March 31st.....	11.26	171	737	— 1.7	65		9.4	
	11.40	440	710	—12.2	80			
	11.56	610	695	—15.0	90			N. W.
	12.20	940	666	—15.0	62			throughout
	1.10	1080	652	—15.6	20			
	1.40	410	712	— 2.8	85			

KITES CARRYING METEOROGRAPH

RESULTS OF FREE AIR OBSERVATIONS — AGINCOURT, CANADA.

DATE	TIME	HEIGHT IN METRES ABOVE S.L.	Pressure in m.m.	TEMP. C	Relative Humidity	WIND		REMARKS
						Direction	Velocity m.p.s.	
1913								
April 12th	11 15	171	760	5 6	50	S E.	6 7	
	11 [illegible]	420	736	3 9	33	S W	1 5	
	11 50	740	706	0 0	60	S W	13.4	
	12 10	950	688	1 7	86	S W	17 9	
	12 30	1140	671	— 1 7	100	In cloud		
	1 00	1350	651	— 2 2	100	In cloud		
	1 15	1450	645	— 2 2	100	In cloud		Shower at 1 10
April 19th	12 36	171	742	7 2	88			East Wind
	12 46	480	716	5 6	82			
	1 08	610	704	6 1	81			
	1 30	600	707	6 1	80			
April 22nd	9 36	171	746	6 9	75			Wind East throughout flight. Encountered cloud at about 1200 m elevation
	10 30	760	695	— 2 5	95			
	10 52	530	714	— 1 9	95			
	11 00	1110	662	— 4 4	93			
	11 50	1530	627	— 8 1	94			
	12 14	1620	621	8.1	96			
	1 06	1650	618	— 9 2	80			
	1 25	1930	597	— 10.3	95			
	1 46	1330	646	— 8 6	95			
May 2nd	12 53	171	744	1.1	40		6.7	Wind W.N.W. at surface. Kite in cloud at 750 m. elevation
	1 37	660	701	3 9	55			
	2 05	960	674	— 5 6	60			
	2 27	620	704	— 5 0	60			
	2 57	920	679	— 6 1	57			
	3 19	490	717	— 2 8	52			

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada.

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind Direction	Wind Velocity m.p.s.	Remarks
1911	h. m.							
May 8th	10.38	171	749	23.3	75			
	11.10	600	710	21.7	60			
	12.49	490	722	21.1	59			Wind south at surface and west at all elevations given here.
	1.33	950	681	16.7	59			
	2.02	1160	665	15.0	60			
	3.27	1240	657	12.8	65			
	4.19	1540	632	7.8	70			
	4.37	900	687	15.6	69			
May 10th.....	10.07	171	743	14.4	93	E.	8.0	
	11.42	720	694	12.2	85	S.S.E.		
	12.20	370	726	12.2	80	S.E.		
	1.00	870	682	11.7	75	S.		
	1.08	490	716		78			
May 12th	10.08	171	745	23.9	72			
	10.48	800	691	20.0	62			
	11.20	1130	667	16.7	68			
	11.30	300	732	21.1	55			West wind throughout flight. Day very clear
	11.50	870	686	18.3	50			
	12.08	1420	642	11.7	58			
	12.24	1510	637	10.0	67			
	12.57	710	699	9.4	52			
	1.15	1350	648	1.7	68			
	1.38	910	680	11.1	70			
May 16th.	9.50	171	749	15.6	80	E.		
	10.10	290	736	13.3	83	S.E.		Surface wind 6.3 metres per sec. at 11 a.m. 3.4 at 2 p.m.
	10.18	400	727	12.8	88	"		
	11.22	520	717	11.7	79	"		
	1.40	500	719	12.8	70	"		

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind Direction	Wind Velocity m.p.s.	Remarks
1911	E. m.							
May 24th	10 18	171	747	21 7	55			
	11.00	630	706	13 9	72			
	11 33	880	686	10.0	78			
	11 53	1340	647	6.7	77			West wind throughout flight, and day clear
	1 05	1635	623	7.2	95			
	1 52	1460	635	5 6	89			
	2 44	1830	608	4 4	65			
	3 16	1450	636	6.7	57			
	3 32	1500	633	6.7	60			
	4 47	1260	654	7.8	65			
May 29th	10.35	171	751	18.9	40			Surface wind north, shifting towards west as kite ascended.
	11.35	466	724	16.7	40			
	1 10	668	708	18.9	15			
	2.13	761	697	17.8	8			
June 1st	9.25	171	742	18.9	58			Clouds at 450 metres elevation. Wind N.W. at surface, shifting to W. at highest elevation.
	9.45	870	680	10.0	84			
	10.05	650	700	11.1	68			
	10 27	1420	637	11.1	46			
June 1st	12 00	171	742	17.8	80	N.W.	6.3	
	12 25	350	724	9.4	85			
	12.45	550	707	6 7	95			
	1.05	900	678	2 8	100	W.N.W.		
June 14th	12.54	171	738	20.6	51			Wind north throughout flight
	1 03	300	723	17.8	57			
	1 08	509	706	14.4	61			
	1 12	670	693	12.8	68			

Continued

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind Direction	Wind Velocity m.p.s.	Remarks
1911	h. m.							
June 14th. ..... (continued)	1.24	750	685	12.2	71			
	1.30	840	677	10.6	77			
	2.12	1170	653	8.9	79			
	2.28	1408	631	6.1	89			Wind north throughout flight
	2.46	1000	663	8.9	81			
	2.50	800	681	11.7	67			
	2.55	1040	660	9.4	74			
	3.01	870	675	11.1	70			
June 28th.	10.10	171	745	19.4	60			
	11.00	520	712	13.3	80			
	11.53	750	694	12.2	90			
	12.34	920	677	10.6	100			
	12.44	1310	648	7.8	100			Cumulous cloud at 1300 metres elevation. Wind S.W. at surface, west above 750 metres.
	1.09	1390	642	8.3	90			
	1.19	1920	601	11.1	35			
	1.35	2390	571	11.7	18			
	1.40	2410	569	12.2	17			
	1.52	1910	604	10.0	10			
	2.06	910	680	10.0	100			
	2.18	1310	648	8.9	100			
	2.33	1030	669	12.2	100			
	2.48	850	686	10.6	100			
July 22nd.....	10.55	171	742	22.8	38	N.W.	6.7	
	11.45	680	700	14.4	46	N.W.		
	12.15	890	683	13.9	58	N.W.		
	12.30	980	675	13.3	53	N.W.		
	12.45	830	686	15.0	50	N.W.		
	1.10	1000	673	12.8	53	N.W.		

KITES CARRYING METEOROGRAPHS

RESULTS OF FREE AIR OBSERVATIONS, AGINCOURT, CANADA

DATE	TIME	HEIGHT IN METRES ABOVE S.L.	PRESSURE m.m.	TEMP. C	Relative Humidity	WIND Direction	WIND Velocity m.p.s.	REMARKS
1911	h. m.							
Nov. 25th	9 25	171	741	13 9	75	W.	9 8	
	10 03	710	692	6 7	96	"		
	10 13	710	692	7 8	97	"		
Aug. 18th	2 55	171	747	21 1	73	N W	7 1	
	3 03	550	712	13 3	81	N N W.		
August 22nd	9 55	171	715	25.0	50	S W	Fresh	
	10 15	220	737	27.2	50			
	10 25	460	716	23.9	50			
	10 35	780	692	21 1	50			
	10 40	1000	675	18 9	50			
	10 48	1200	659	16 1	50	W N W		
September 12th.	10 45	171	743	15 0	59	N W	6.7	
	11 10	540	708	6 1	78			
	11 35	810	686	2 8	84			
	11 55	930	674	1 1	90			
	12 15	650	700	4 4	75			N.W. wind throughout
	12 37	850	682	2 2	86			
	12 52	1090	662	0 6	80			
	1 15	1090	662	0.0	80			
	1 30	1150	657	— 1 1	78			
	1 45	1020	667	0 6	82			

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m m.	Temp. C	Relative Humidity	Wind		Remarks
						Direction	Velocity m p.s.	
1911	h. m.							
November 14th...	12.05	171	748	0.0	80	S.W.		
	12.20	400	726	− 5.5	90			
	12.35	700	699	−10.0	75	W.S.W.		
	12.55	1010	670	− 10.5	60			
	1.15	1310	645	− 13.0	60	W.		
	1.25	1550	621	−14.0	90	W.		
	1 50	1530	626	−11.0	100	W.N.W.		
November 15th...	11.05	171	737	0 0	45	W.S.W.	6.3	
	11.15	510	704	− 1.0	50	W.		
	11.25	825	677	− 3.5	55	"		
	11.40	1090	655	− 5.0	58	"		
	11.50	1210	641	− 5.5	57	"		
	12.15	920	669	− 5.0	57	"		
November 30th...	10.36	171	743	− 2.0	63	W	8.5	
	10.40	350	727	− 7 0	63	"		
	10.52	560	707	−11.0	65	"		
	11.11	690	696	−10.5	67	"		
	11.30	600	702	−10.5	78	"